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MAY 8 - 1968

CURRENT SERIAL RECORDS

WATER SUPPLY OUTLOOK FOR NEVADA

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,

and

NEVADA DEPARTMENT of CONSERVATION and NATURAL RESOURCES
DIVISION of WATER RESOURCES

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed on the last page of this report.

AS OF
MAR. 1, 1968

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data or reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

D. A. WILLIAMS, Administrator

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 507, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85205
Colorado (N. Mex.)	12417 Federal Building, Denver, Colorado 80202
Idaho	P. O. Box 38, Boise, Idaho 83707
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Building, Salt Lake City, Utah 84111
Washington	360 Federal Office Building, Spokane, Washington 99201
Wyoming	P. O. Box 340, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR NEVADA

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

D.A. WILLIAMS
ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

|||||

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ALPHABETICAL INDEX TO NEVADA SNOW COURSES

This alphabetical tabulation of snow courses has been prepared to provide readers with rapid access to basic snow survey data. The reader is referred to the "Index to Nevada Snow Courses by basins" and "Nevada Snow Courses" map on the next page for other detailed information such as location, elevation, basin and sub-basin, state and numbering system legend.

SNOW COURSE	NO.	PLATE	SNOW COURSE	NO.	PLATE
American Beauty	15J17a	8,11	Lamoille #3	15J6M	8,11
Baker #1	14L1	7	Lamoille #4	15J7	8,11
Baker #2	14L2	7	Lamoille #5	15J8	8,11
Baker #3	14L3	7	Lapon Meadow	18L1	5
Bald Mountain	19H1	13	Laurel Draw	16H5	10
Barber Creek	20H5	13	Leavitt Meadows	19L8	5
Bear Creek	15H1MA	10,11	Lee Canyon #1	15N4	6
Berry Creek	14K2	7	Lee Canyon #2	15N3	6
Big Bend	15H4MP	10,11	Lee Canyon #3	15N8	6
Big Creek Campground	17K1	6	Little Bally Mtn.	19H4a	13
Big Creek Mine	17K2	6	Little Valley	19K3	2
Big Creek, Upper	17K3	6	Lobdell Lake	19L17a	5
Bird Creek	14K1	7	Louse Canyon	17G4a	12
Blue Lakes	19L5	3,4	Lower Corral	17L1	6
Boca #2	20K14	2,4			
Brockway Summit	20K22	2	Marlette Lake	19K4MSTZ	2,3
Buckeye Forks	19L11	5	Martin Creek	17H3	11,12
Buckeye Roughs	19L10	5	Mathew Canyon	14M1	6
Buckskin, Lower	17H2	11,12	Merritt Mtn.	15H20	10
Buckskin, Upper	17H1	11,12	Midas	16H3AP	10,11
			Montgomery Pass	18M1	6
Campito Mountain	18M2	6	Mt. Grant	18L2	5
Carson Pass, Upper	19L4	3,4	Mt. Rose	19K2	2
Cave Creek	15J13	7,8,11	Murray Summit	14K3	7
Cedar Pass	20H6	13			
Center Mountain	19L12A	5	Oregon Canyon	17G5a	12
Chiatovich Flat	18M5	6			
Clark Canyon	15N2	6	Pinchot Creek	18M3a	6
Clear Creek	19K5	3,4	Pine Canyon	14M2	6
Columbia Basin	16H6a	10	Plute Pass	18M4a	6
Corral Canyon	15J12A	8,11	Poison Flat	19L6A	3,4
			Pole Canyon	15J18a	8,11
Daggetts Pass	19L14	2,3,4	Pole Creek R. 5.	15H14	9
Denio Creek	18G6a	12			
Disaster Peak	18H1	12	Quinn Ridge	17H6a	12
Dismal Swamp	20H3a	13			
Donner Park #2	20K21	2	Rainbow Canyon #2	15N7	6
Donner Summit	20K10	2,4	Red Point	15H18a	9
Dorsey Basin	15J1MP	8,11	Reservation Creek	20H4	13
Dry Creek	15J3	8,11	Richardsons #2	20L3	2
			Robinson Lake	15J16a	8,11
Eagle Peak	20H7	13	Robinson Summit	15K1	7
Ebbetts Pass	19L19a	3	Rodeo Flat	15H6MP	10,11
Echo Summit	20L5	2,3,4	Rubicon #1	20L1	2
			Rubicon #2	20L2	2
Fawn Creek	16H8a	10	Ryan Ranch	15J2	8,11
Fordyce Lake	20K7	2,4			
49-Mtn.	19H3	13	Sage Hen Creek	20K6	2,4
Fox Creek	15H2	10	76 Creek	15H3A	10,11
Freel Bench	19L2	2	Silver Creek #2	14K7	7
Fry Canyon	15H7	10,11	Sonora Pass	19L7M	3,5
Furnace Flat	20K8	2,4	Sonora Pass Snowpillow	19L23stz	3,5
			Squaw Valley #2	20K19	2
Glenbrook #2	19K6	2,3	5tag Mtn.	15H19a	10,11
Goat Creek	15H13	9			
Golconda #2	17J2	11	Tahoe City	20K16	2,4
Gold Creek	15H5	10,11	Taylor Canyon	15H9MP	10,11
Granite Peak	17H4	11,12	Tioga Pass	19M1	5
Green Mountain	15J9MP	8,11	Toe Jam	16H7a	10,11
			Tremewan Ranch	15H8	10,11
Hagans Meadow	19L3MSZ	2,4	Trough Springs	15N1	6
Hager Canyon	15J14	7,8,11	Trout Creek	18G5a	12
Harrison Pass #1	15J10	8,11	Trout Creek, Lower	15H10P	8,11
Harrison Pass #2	15J11	8,11	Trout Creek, Upper	15H11A	8,11
Hays Canyon	19H2	13	Truckee #2	20K13M	2
Hole-In-Mountain	15J15	8,11			
Hummingbird Springs	15H15A	9,11	Upper Corral	17L2	6
			Upper Fish Valley	19L16a	3
Independence Camp	20K4MPSTZ	2,4	Upper Truckee	19L1	2
Independence Creek	20K3	2			
Independence Lake	20K5	2	Virginia Lakes	19L13M	5
			Virginia Lakes Snowpillow	19L22sz	5
Jack Creek, Lower	16H1M	10,11			
Jack Creek, Upper	16H2A	10,11	Ward Creek	20K17M	2,4
Jacks Peak	16H4	10,11	Ward Creek #2	20K25STZ	2,4
Jakes Creek	14H1	9	Ward Mountain #2	14K5	7
			Webber Lake	20K2	2
Kalamazoo Creek	14K8	7	Webber Peak	20K1	2
Kyle Canyon	15N5	6	Wet Meadows Lake	19L18a	3
			White River #1	15L1	7
Lake Lucille	20L4	2	Willow Flat	19L9	5
Lamance Creek	17H5	11,12	Wolf Creek	19L20a	3
Lamoille #1	15J4	8,11			
Lamoille #2	15J5	8,11			

INDEX TO NEVADA SNOW COURSES

(By Basins)

NUMBER NAME SEC. TWP. RGE. ELEV.

SNAKE RIVER BASIN

SNAKE RIVER
15H1MA BEAR CREEK 31 46N 58E 7800
15H2 FOX CREEK 33 46N 58E 6800
15H13 GOAT CREEK 31 46N 60E 8800
15H15A HUMMINGBIRD SPRINGS 6 45N 60E 8945
14H1 JAKES CREEK 6 42N 62E 7000
15H20a MERRITT MOUNTAIN 10 46N 54E 7000
15H14 POLE CREEK RANGER STATION 13 46N 59E 8330
15H18a RED POINT 15 47N 61E 7940
15H3A 76 CREEK 6 44N 58E 7100
15H19a 57AG MTN. 29 41N 58E 7800

OWYHEE RIVER
15H4MP BIG BEND 30 45N 56E 6700
16H6a COLUMBIA BASIN 31 44N 53E 6650
16H8a FAWN CREEK 2 45N 52E 7000
15H5 GOLO CREEK 32 45N 56E 6600
16H1M JACK CREEK, LOWER 18 42N 53E 6800
16H2A JACK CREEK, UPPER 9 42N 53E 7250
16H4 JACKS PEAK 28 42N 53E 8420
16H5 LAUREL DRAW 20 45N 53E 6700
1764a LOUSE CANYON (OREG.) 27 40S 44E 6440
15H9MP TAYLOR CANYON 35 39N 53E 6200

INTERIOR

UPPER HUMBOLOT RIVER
15J17a AMERICAN BEAUTY 32 31N 58E 7800
16H6a COLUMBIA BASIN 31 44N 53E 6650
15J12A CORRAL CANYON 27 28N 57E 8500
15J1MP OORSEY BASIN 28 35N 60E 8100
15J3 ORY CREEK 5 34N 60E 6500
15H7 FRY CANYON 31 43N 54E 6700
15J9MP GREEN MOUNTAIN 23 29N 57E 8000
15J10 HARRISON PASS #1 9 28N 57E 6600
15J11 HARRISON PASS #2 16 28N 57E 7400
15J4 LAMOILLE #1 15 32N 58E 7100
15J5 LAMOILLE #2 14 32N 58E 7300
15J6M LAMOILLE #3 24 32N 58E 7700
15J7 LAMOILLE #4 19 32N 59E 8000
15J8P LAMOILLE #5 31 32N 59E 8700
15J18a POLE CANYON 31 35N 61E 9140
15J16a ROBINSON LAKE 23 33N 59E 9200
15H6MP ROOED FLAT 36 43N 53E 6800
15J2 RYAN RANCH 1 34N 59E 5800
15H8 TREMEWAN RANCH 9 39N 55E 5700
15H10P TROUT CREEK, LOWER 28 37N 61E 6900
15H11A TROUT CREEK, UPPER 4 36N 61E 8500

LOWER HUMBOLOT RIVER
17K1 BIG CREEK CAMP GROUND 10 17N 43E 6600
17K2 BIG CREEK MINE 23 17N 43E 7600
17K3 BIG CREEK, UPPER 26 17N 43E 8000
17H2 BUCKSKIN, LOWER 25 45N 39E 6700
17H1 BUCKSKIN, UPPER 11 45N 39E 8200
17J2 GOLCONOA #2 22 35N 39E 6000
17H4 GRANITE PEAK 22 44N 35E 7800
17H5 LAMANCE CREEK 13 42N 38E 6000
17L1 LOWER CORRAL 12 11N 40E 7500
17H3 MARTIN CREEK 18 44N 40E 6700
16H3AP MIDAS 18 39N 46E 7200
18H7 TOE JAM a 29 40N 50E 7700
17L2 UPPER CORRAL 20 11N 41E 8500

EASTERN NEVADA
14L1 BAKER #1 29 13N 69E 7950
14L2 BAKER #2 30 13N 69E 8950
14L3 BAKER #3 25 13N 68E 9250
14K2 BERRY CREEK 23 17N 65E 9100
14K1 BIRD CREEK 34 19N 65E 7500
15J13 CAVE CREEK 25 27N 57E 7500
15J14 HAGER CANYON 34 27N 57E 8000
15J15 HOLE-IN-MTN 6 35N 61E 7900
14K8 KALAMAZOO CREEK 34 20N 65E 7400
14K3 MURRAY SUMMIT 26 16N 62E 7250
15K1 ROBINSON SUMMIT 23 18N 61E 7600
14K7 SILVER CREEK #2 30 16N 69E 8000
14K5 WARD MOUNTAIN #2 25 15N 62E 7875
15L1 WHITE RIVER #1 31 13N 59E 7400

CENTRAL GREAT BASIN
18M2 CAMPITO MTN. (CAL.) 19 5S 35E 10200
18M5a CHICTOVICH FLAT 32 25 34E 10500
15N2 CLARK CANYON 8 19S 56E 9000
18M1 MONTGOMERY PASS 4 1N 33E 7100
18M3a PINCHOT CREEK 28 1N 33E 9300
18M4a PIUTE PASS (CAL.) 33 45 33E 11700
15N1 TROUGH SPRINGS 23 18S 55E 8500

NORTHERN GREAT BASIN
19H1 BALO MOUNTAIN 17 45N 21E 6720
20H5 BARBER CREEK (CAL.) 23 39N 16E 6500
20H6 CEDAR PASS (CAL.) 12 43N 14E 7100
18G6a OENIO CREEK (OREG.) 14 41S 34E 6000
18H1 OISASTER PEAK 8 47N 34E 6500
20H3a OISMAL SWAMP (CAL.) 31 48N 22E 7000
20H7 EAGLE PEAK (CAL.) 35 40N 15E 7200
19H3 49-MTN 7 42N 19E 6000
19H2 HAYS CANYON 1 39N 18E 6400
19H4a LITTLE BALLY MTN 8 45N 19E 6000
17G5a OREGON CANYON (OREG.) 9 40S 40E 7240
17H6a QUINN RIDGE 9 47N 41E 6300
20H4 RESERVATIIN CREEK (CAL.) 12 46N 15E 5900
18G5a TROUT CREEK (OREG.) 10 41S 38E 7800

NUMBER NAME SEC. TWP. RGE. ELEV.

LAKE TAHOE

19L14 OAGGETTS PASS 19 13N 19E 7350
20L5 ECHO SUMMIT (CAL.) 6 11N 18E 7450
19L2 FREEL BENCH (CAL.) 36 12N 18E 7300
19K6 GLENBROOK #2 13 14N 18E 6900
19L3M5Z HAGANS MEADOW (CAL.) 36 12N 18E 8000
20L4 LAKE LUCILLE (CAL.) 28 12N 17E 8200
19K4M5TZ MARLETTE LAKE 18 15N 19E 8000
20L3 RICHARSONS #2 (CAL.) 6 12N 18E 6500
20L1 RUBICON #1 (CAL.) 6 13N 17E 8100
20L2 RUBICON #2 (CAL.) 6 13N 17E 7500
20K16 TAHOE CITY (CAL.) 6 15N 17E 6250
19L1 UPPER TRUCKEE (CAL.) 21 12N 18E 6400
20K17M WARD CREEK (CAL.) 21 15N 16E 7000
20K255TZ WARD CREEK #2 (CAL.) 21 15N 16E 6750

TRUCKEE RIVER

20K14 BOCA #2 (CAL.) 28 18N 17E 5900
20K22 BROCKWAY SUMMIT (CAL.) 3 17N 16E 7100
20K21 OONNER PARK #2 (CAL.) 18 17N 16E 6000
20K10* OONNER SUMMIT (CAL.) 25 17N 14E 6900
20K7* FORGYCE LAKE (CAL.) 34 18N 13E 6500
20K8 FURNACE FLAT (CAL.) 10 17N 13E 6700
20K4MP INDEPENDENCE CAMP (CAL.) 34 19N 15E 7000
20K3 INDEPENDENCE CREEK (CAL.) 14 19N 15E 6500
20K5 INDEPENDENCE LAKE (CAL.) 9 18N 15E 8450
19K3 LITTLE VALLEY 17 16N 19E 6300
19K2 MT. ROSE 7 17N 19E 9000
20K6 SAGE HEN CREEK (CAL.) 7 18N 16E 6500
20K19 SOUAW VALLEY #2 (CAL.) 6 15N 16E 7500
20K1M TRUCKEE #2 (CAL.) 22 17N 16E 6400
20K2 WEBBER LAKE (CAL.) 29 19N 14E 7000
20K1* WEBBER PEAK (CAL.) 30 19N 14E 8000

CARSON RIVER

19L5 BLUE LAKES (CAL.) 30 9N 19E 8000
19L4 CARSON PASS, UPPER (CAL.) 22 10N 18E 8600
19K5 CLEAR CREEK 6 14N 19E 7300
19L19a EBBETS PASS (CAL.) 17 8N 20E 8700
19L6A POISON FLAT (CAL.) 25 8N 21E 7900
19L16a UPPER FISH VALLEY (CAL.) 18 7N 22E 8050
19L20a WOLF CREEK (CAL.) 35 8N 20E 8000
19L18a WET MEADOWS LAKE (CAL.) 26 9N 19E 8100

WALKER RIVER

19L11 BUCKEYE FORKS (CAL.) 20 4N 23E 8500
19L10 BUCKEYE ROUGHS (CAL.) 15 4N 23E 7900
19L12A CENTER MOUNTAIN (CAL.) 4 3N 23E 9400
18L1 LAPON MEADOW 36 8N 28E 9000
19L8 LEAVITT MEADOWS (CAL.) 4 5N 22E 7200
19L17a LOBOELL LAKE (CAL.) 20 7N 24E 9200
18L2 MT. GRANT 23 8N 28E 9000
19L7M SONORA PASS (CAL.) 1 5N 21E 8800
19L23 stz. SONORA PASS BRIDGE 6 5N 22E 8800
19M1* TIOPA PASS (CAL.) 30 1N 25E 9800
19L13M VIRGINIA LAKES (CAL.) 5 2N 25E 9500
19L9 WILLOW FLAT (CAL.) 21 5N 23E 8250
19L22 stz. VIRGINIA LAKES RIDGE 32 3N 25E 9200

COLORADO

LOWER COLORADO RIVER

15N5 KYLE CANYON 27 19S 56E 8200
15N4 LEE CANYON #1 10 19S 56E 8400
15N3 LEE CANYON #2 9 19S 56E 9200
15N8 LEE CANYON #3 10 19S 56E 8500
14M1 MATHEW CANYON 10 6S 70E 6000
14M2 PINE CANYON 23 6S 69E 6200
15N7 RAINBOW CANYON #2 6 20S 57E 8100

LEGEND NUMBERING SYSTEM (EXAMPLE)

19K4 SNOW COURSE ONLY
19K4S SNOW COURSE AND SNOW PILLOW
19K4M SNOW COURSE AND SOIL MOISTURE
19K4A SNOW COURSE AND AERIAL MARKER
19K4P SNOW COURSE AND STORAGE PRECIPITATION GAGE
19K4MA SNOW COURSE, SOIL MOISTURE AND AERIAL MARKER
19K4MP SNOW COURSE, SOIL MOISTURE AND PRECIPITATION GAGE
19K45TZ SNOW COURSE, SNOW PILLOW AND TEMPERATURE RADIO TELEMETERED.

LOWER CASE LETTERS m, a, p, s, l, z, INDICATE NO SNOW COURSE, ONLY A SOIL MOISTURE STATION, AERIAL MARKER, STORAGE PRECIPITATION GAGE, SNOW PILLOW, TEMPERATURE, OR RADIO TELEMETERED.

* LOCATED ON ADJACENT WATERSHED

WATER SUPPLY OUTLOOK

FOR NEVADA

March 1, 1968

* * * * *
* Nevada's 1968 water supply outlook dropped to "poor" in *
* the northeastern part of the state but remains "near *
* average" along the Sierras. Snow cover varies from one- *
* third of average, in northeastern Nevada, to about *
* average in southern Nevada. Reservoir storage is well *
* above average along the Sierras and below average on the *
* Humboldt and Owyhee. Watershed soils are well primed *
* and should aid apring runoff. Streamflow forecasts for *
* the April-July period range from 36 percent of average *
* on the Owyhee to 90 percent on the Truckee. *
* * * * *

SNOW COVER

Snow cover generally declined over the state during February, due to warmer-than-average temperatures and rain at elevations up to about 8,000 feet. All low-elevation snow was washed away. Basin snow cover percentages now range from 30 to 40 percent of average, on the Owyhee-Humboldt, to 70 to 80 percent on the Tahoe-Truckee and 90 percent in southern Nevada. The Walker Basin has 63 percent and the Carson 78 percent of the March 1 average.

SOIL MOISTURE

Watershed soils were generally well primed over most of the state by rain and melting snow last month.

RESERVOIR STORAGE

Nevada's seven principal reservoirs, exclusive of Mead and Mohave, now hold 1,025,000 acre-feet of water, or 141 percent of the March 1 average for the 1948-62 period. Storage on the Humboldt and Owyhee is below average, while storage along the Sierras is well above average for this early in the season.

STREAMFLOW FORECASTS

Streamflow forecasts for the April-July period range from 36 percent of average on the Owyhee to 90 percent on the Truckee.

The Humboldt at Palisade is expected to flow 75,000 acre-feet, or 43 percent of average. The Carson is forecast to flow 100,000 acre-feet, or 65 percent, at Fort Churchill and 140,000 or 78 percent at Gardnerville. The West Fork Carson is expected to flow 40,000 acre-feet, or 77 percent of average.

The West Walker is expected to flow 110,000 acre-feet, or 78 percent of average, and the East Walker is forecast to flow 40,000 acre-feet, or 70 percent of average.

Lake Tahoe is forecast to rise 1.1 feet from April to the high elevation. This forecast indicates that water in excess of the requirement to maintain Floristan rates will be released to prevent the lake level from exceeding the maximum elevation of 6229.1, according to the Truckee Basin Forecast Committee.

ELECTRONIC SENSORS

Radio-reporting snow sensors indicated that a peak snow water content was reached about February 20 and that melt began after that date. About 2.5 inches of water was lost from the snow pack by March 1 at the 7,000-foot elevation.

NEVADA STREAMFLOW FORECASTS - MARCH 1968

The following summarized runoff forecasts are based principally on mountain snow cover and the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts.

BASIN and Forecast Stream	April-July Streamflow, Thousands Acre-Feet				
	Forecast 1968	15-Yr. Average 1948-62	1968 as % of 15-Yr. Av.	Measured Runoff 1967	1966
<u>TRUCKEE RIVER</u>					
Little Truckee River above Boca California ³	82	78	105 (86)	174	48
Truckee River at Farad, Calif. ^{2, 3}	242	269	90 (86)	550	155
Lake Tahoe ^{1, 3}	1.1	1.47	75 (73)	2.74	.71
<u>CARSON RIVER</u>					
East Carson near Gardnerville, Nev.	140	179	78	309	127
West Carson at Woodfords, Calif.	40	52	77	76	37
Carson River near Carson City, Nev.	120	169	71	353	95
Carson River at Ft. Churchill, Nev.	100	155	65	326	80
East Carson near Gardnerville, Nev. (Date of 200 c.f.s. flow)	7/12	7/20		8/31	6/27
<u>WALKER RIVER</u>					
East Walker near Bridgeport, Calif. ⁴	40	57	70	136	38
West Walker below East Fork near Coleville, California	110	140	78	236	98
<u>COLORADO RIVER</u>					
Virgin River at Virgin, Utah ⁵	54	43	126	NA	39

(Continued)



NEVADA STREAMFLOW FORECASTS - MARCH 1, 1968 (Continued)

BASIN and Forecast Stream	April-July Streamflow, Thousands Acre-Feet				
	Forecast 1968	15-Yr. Average 1948-62	1968 as % of 15-Yr. Av.	Measured Runoff 1967	1966
<u>HUMBOLDT RIVER</u>					
Lamoille Creek near Lamoille, Nev.	17	26	65	25	14
So. Fk. Humboldt near Elko, Nev.	30	60	50	72	22
Marys River above Hot Springs, Nev.	20	34	59	27	11
North Fk. Humboldt at Devils Gate, Nev.	13	34	38	27	7
Humboldt River at Palisade, Nev.	75	173	43	200	55
Humboldt River at Comus, Nev.	51	127	40	134	40
Martin Creek near Paradise, Nev.	7	17	41	25	5
<u>SNAKE RIVER</u>					
Owyhee River near Owyhee, Nev. ⁶	32	74	43	72	19
Owyhee River near Gold Creek, Nev. ⁶	8	22	36	11	4
Salmon Falls Creek near San Jacinto, Nevada ⁷	53 52	78 76	68 68	-- --	36 33
<u>SURPRISE VALLEY</u>					
Bidwell Creek near Ft. Bidwell, Calif. ⁸	9.2	14.3*	75	14.7	NA
Mill Creek near Cedarville, Calif. ⁸	4.2	5.5	76	5.6	2.3
Deep Creek near Cedarville, Calif. ⁸	2.6	3.8	68	2.4	1.6
Eagle Creek near Eagleville, Calif. ⁸	4.1	5.2	79	3.8	2.1
1. Maximum rise, in feet, from April 1, assuming gates closed. 2. Exclusive of Tahoe and corrected for storage in Boca Reservoir. 3. Forecast issued by Truckee Basin Water Committee, composed of Truckee-Carson Irrigation District, Sierra Pacific Power Company, and Washoe County Water Conservation District. 4. For period April through August, corrected for storage in Bridgeport Reservoir. 5. April-June forecast; issued by SCS, Salt Lake City, Utah. 6. Corrected for storage in Wild Horse Reservoir. 7. March-Sept. and March-July forecasts respectively; issued by SCS, Boise, Idaho. 8. April-Sept. forecast; coordinated forecast of SCS and California Department of Water Resources, Snow Survey Units. * Adjusted average. ** Number in parenthesis is forecast as percent of long-term average. NA Not available.					

STATUS OF NEVADA RESERVOIR STORAGE

MARCH 1, 1968

BASIN AND STREAM	RESERVOIR	USABLE CAPACITY (1000 AF)	USABLE STORAGE - 1000 ACRE-Feet			
			1968	1967	1966	March 1 15-Yr. Av. 1948-62
Owyhee	Wild Horse	33	6	3	17	14
Lower Humboldt	Rye Patch	179	60	73	179	63
Colorado	Mohave	1,810	1,637	1,662	1,699	1,357 **
Colorado	Mead	27,217	14,614	15,617	15,589	17,037
Tahoe	Tahoe	732	610	444	536	395
Truckee	Boca	41	4	2	2	6
Truckee	Prosser ***	30	9	9	10	Storage began 1/30/63
Carson	Lahontan	286	246	208	213	186
West Walker	Topaz	59	58	34	54	34
East Walker	Bridgeport	42	41	28	34	28

* 1950-62

** Flood control use allocation of 20,000 A.F. between November 1 and April 10.

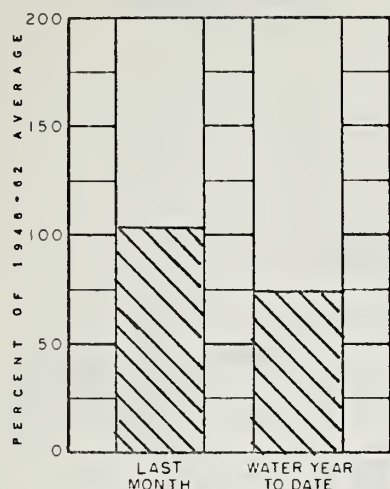
TOTAL RESERVOIR STORAGE

Developed from Wild Horse, Rye Patch, Tahoe, Boca, Lahontan, Topaz,
and Bridgeport Reservoirs in 1000's Acre-Feet

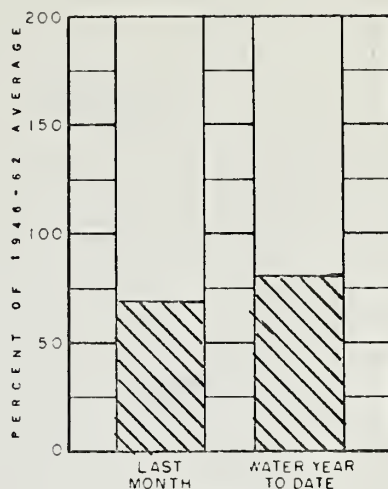
MONTH	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68	Average 1948-62
October 1	338	702	497	1135	559	965	572
January 1	408	748	789	1114	593	904	622
February 1	579	776	922	1051	736	939	670
March 1	690	774	949	1035	792	1025	725
April 1	765	774	1002	1054	943		776
May 1	840	818	1103	1089	978		834

TOTAL USABLE CAPACITY 1,372

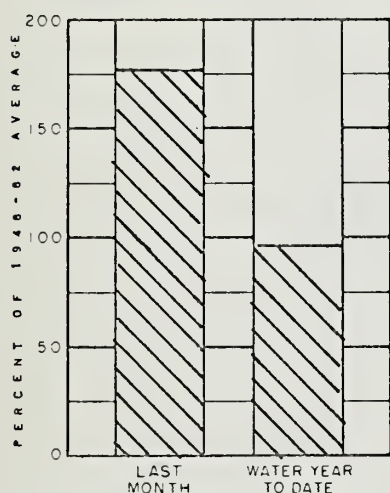
SELECTED CURRENT STREAMFLOW STATIONS



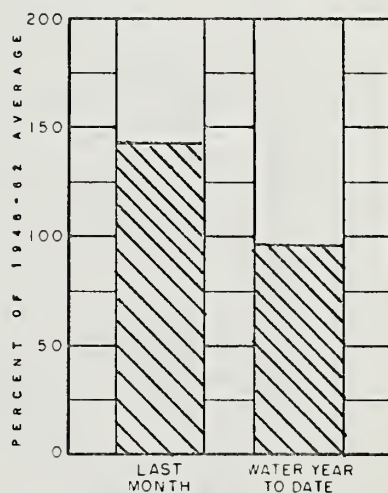
Owyhee near Owyhee, Nev.



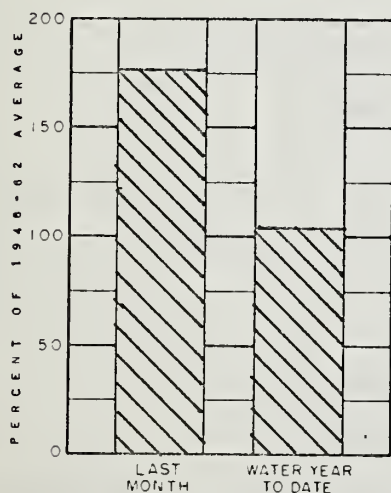
Humboldt at Palisade, Nev.



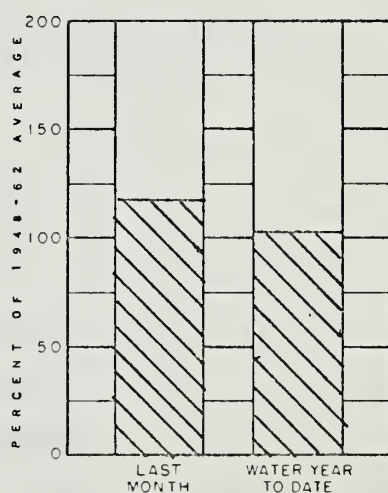
Truckee at Farad, Calif.



Carson near Carson City, Nev.

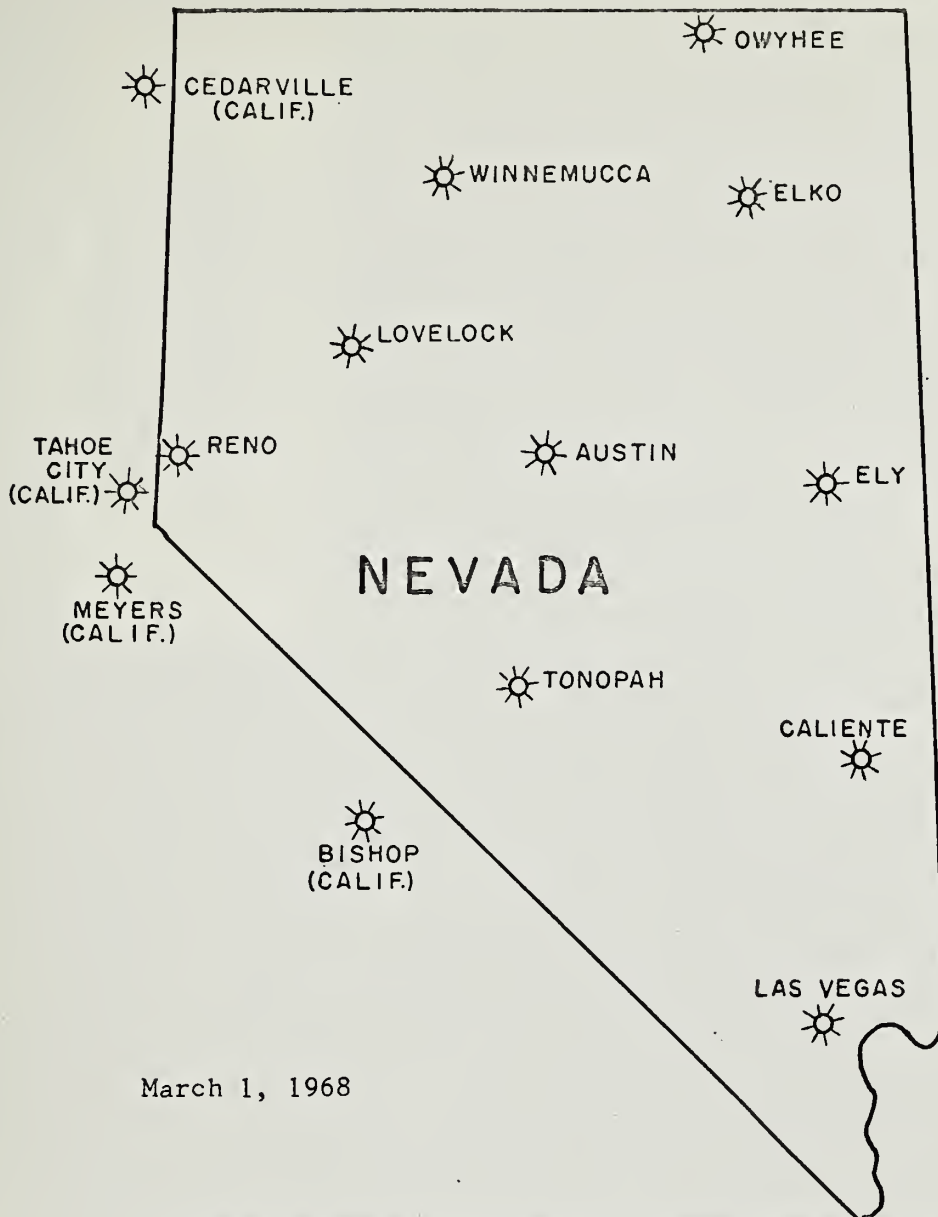


W. Walker near Coleville, Calif.



Virgin at Littlefield, Ariz.

SELECTED PRECIPITATION STATIONS^a



March 1, 1968

PRECIPITATION as PERCENT of the 1948-62 AVERAGE

STATION	LAST MONTH	WATER YEAR ^b TO DATE	STATION	LAST MONTH	WATER YEAR ^b TO DATE
Cedarville (Calif.)	138	81	Owyhee	120	86
Tahoe City (Calif.)	93	79	Elko	184	101
Meyers (Calif.)	75	99	Ely	137	94
Bishop (Calif.)	3	46	Austin	96	56
Reno	90	70	Tonopah	981	267
Lovelock	167	69	Caliente	166	90
Winnemucca	119	74	Las Vegas	60	72

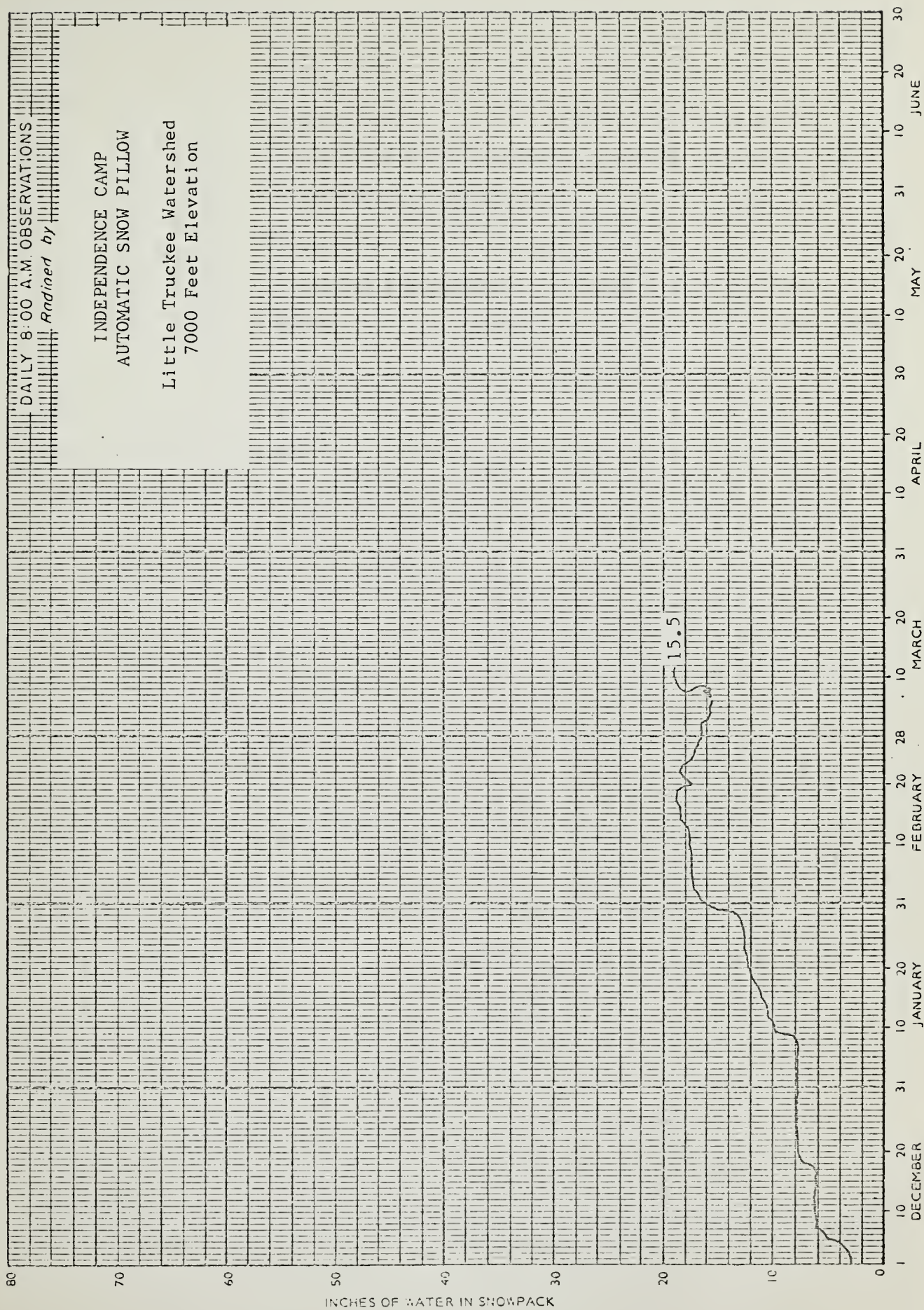
(a) Preliminary Data furnished by U.S. Weather Bureau (b) Oct. 1 to date (c) Report delayed

U.S.D.A. SOIL CONSERVATION SERVICE DAILY RADIO REPORTS BY AUTOMATIC SNOW MEASURING STATION

DAILY 8:00 A.M. OBSERVATIONS
Revised by

INDEPENDENCE CAMP
 AUTOMATIC SNOW PILLOW

Little Truckee Watershed
 7000 Feet Elevation



INCHES OF WATER IN SNOWPACK

U.S.D.A. SOIL CONSERVATION SERVICE DAILY RADIO REPORTS BY AUTOMATIC SNOW MEASURING STATION

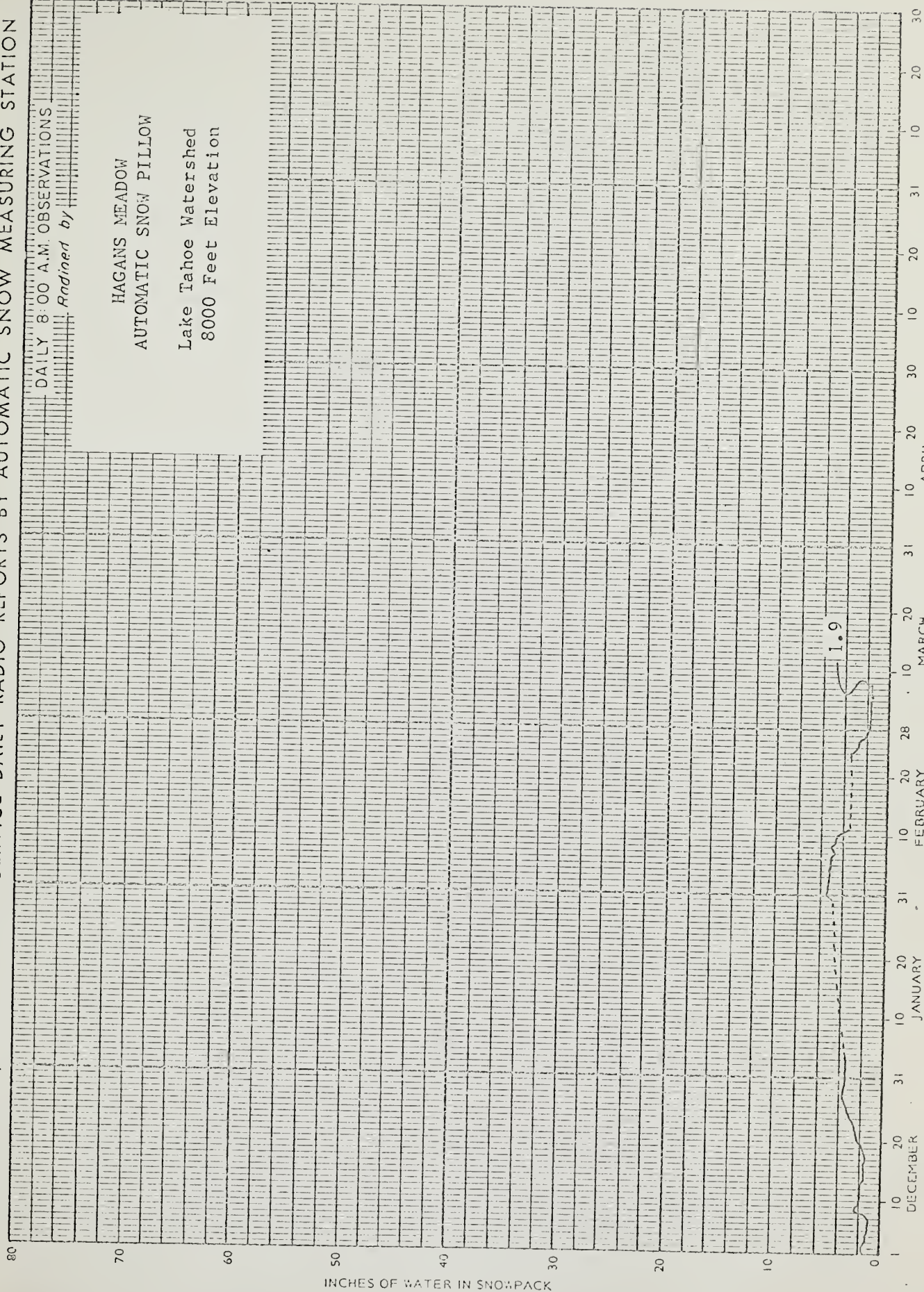
DAILY 8:00 A.M. OBSERVATIONS

Revised by

HAGANS MEADOW

AUTOMATIC SNOW PILLOW

Lake Tahoe Watershed
8000 Feet Elevation

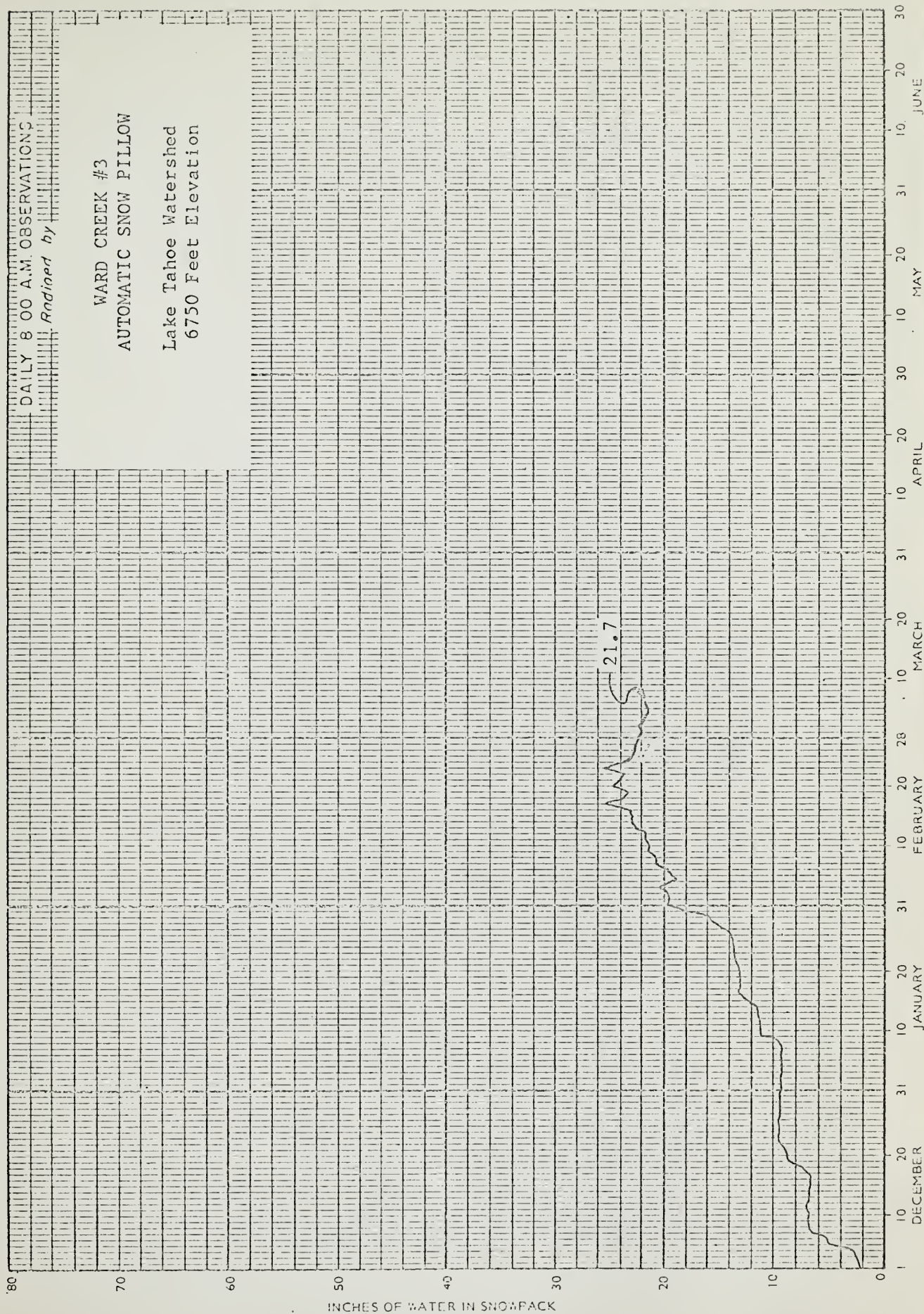


U.S.D.A. SOIL CONSERVATION SERVICE DAILY RADIO REPORTS BY AUTOMATIC SNOW MEASURING STATION

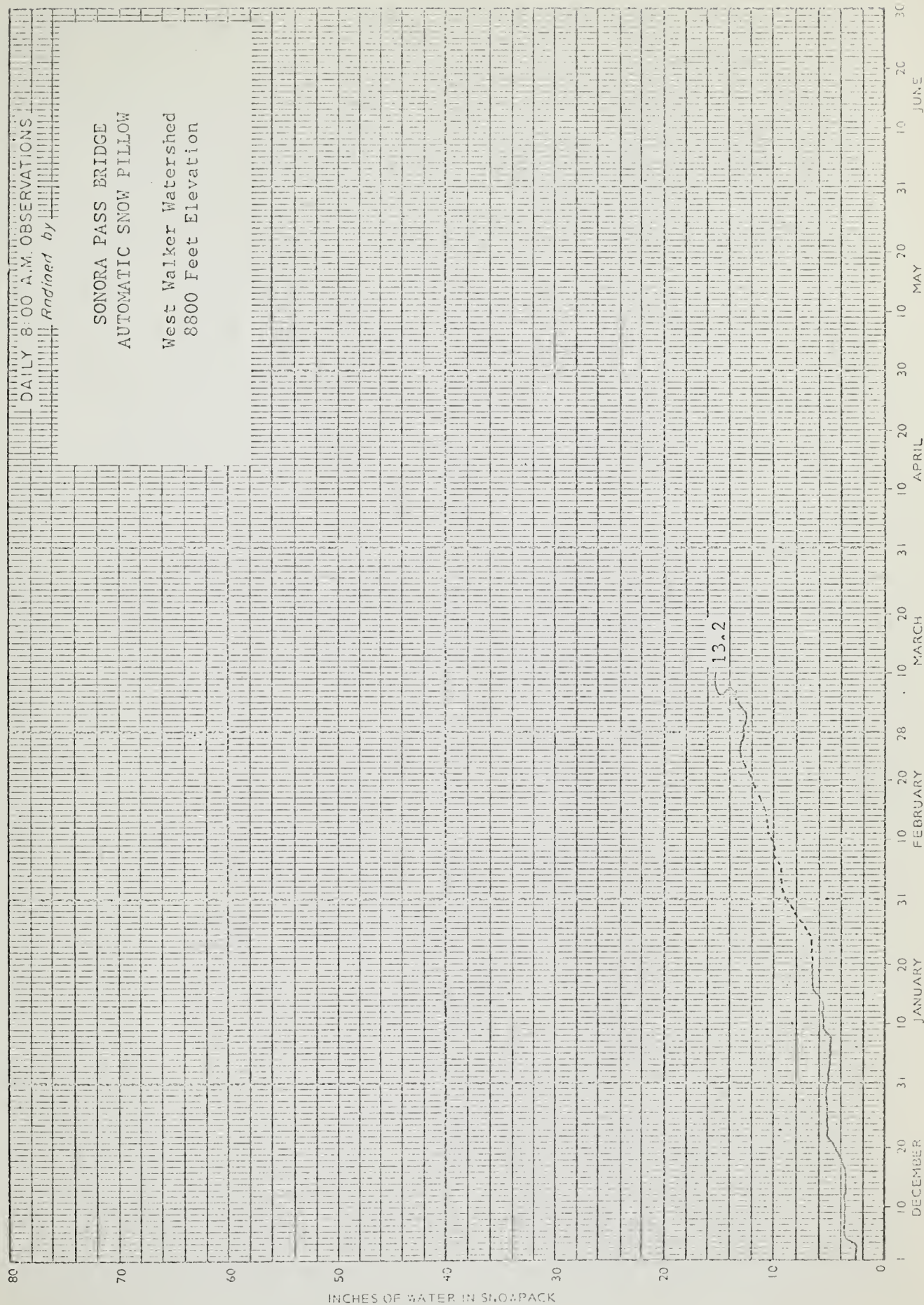
DAILY 8 00 A.M. OBSERVATIONS
Redlined by

WARD CREEK #3
 AUTOMATIC SNOW PILLOW

Lake Tahoe Watershed
 6750 Feet Elevation



U.S.D.A. SOIL CONSERVATION SERVICE DAILY RADIO REPORTS BY AUTOMATIC SNOW MEASURING STATION



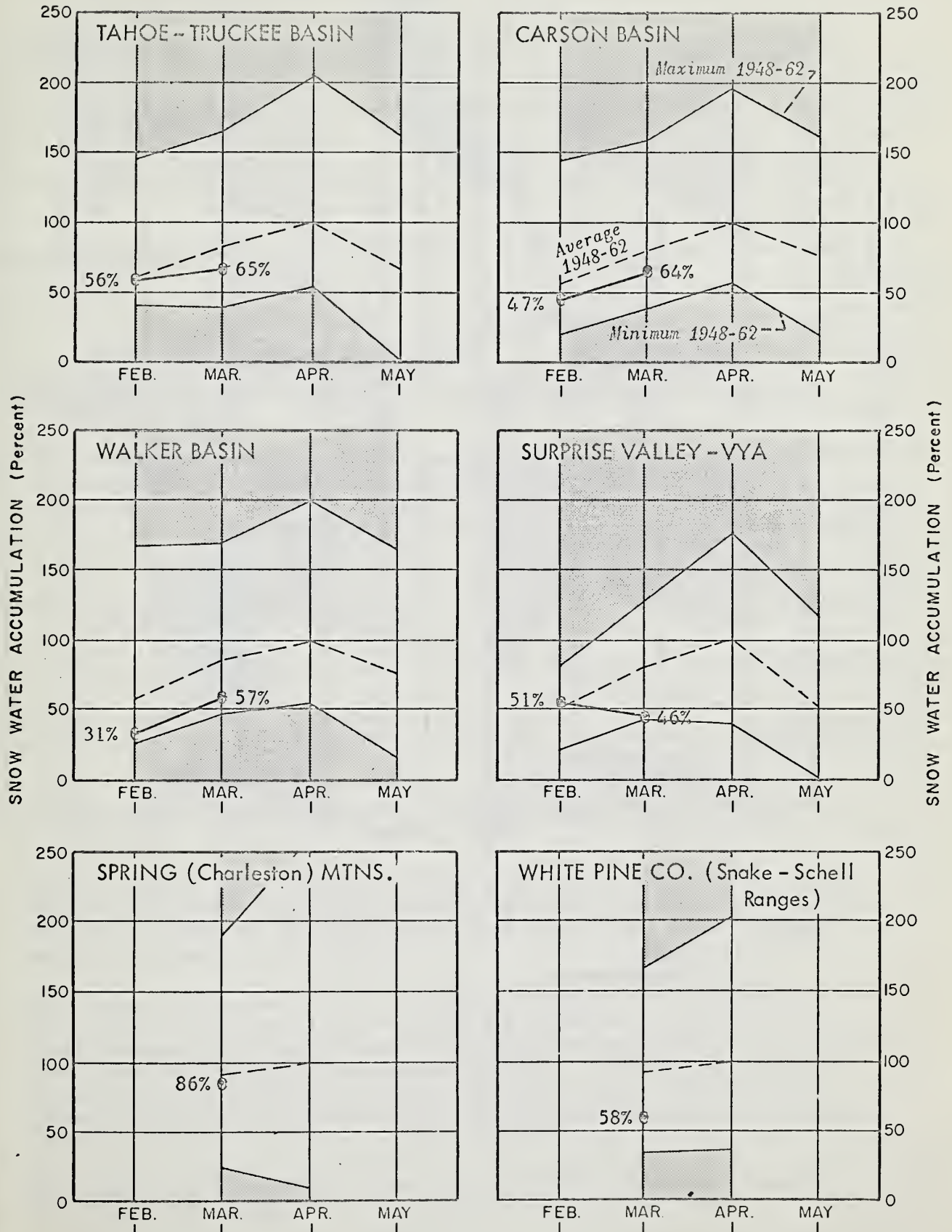
U.S.D.A. SOIL CONSERVATION SERVICE DAILY RADIO REPORTS BY AUTOMATIC SNOW MEASURING STATION



SNOW WATER ACCUMULATION IN NEVADA

Percent of average maximum accumulation

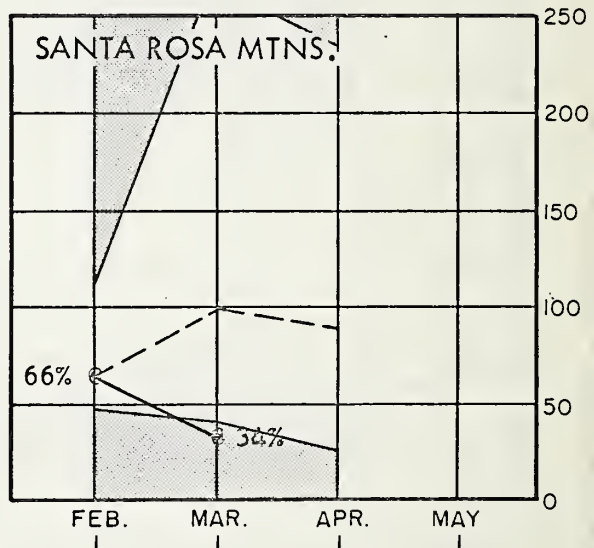
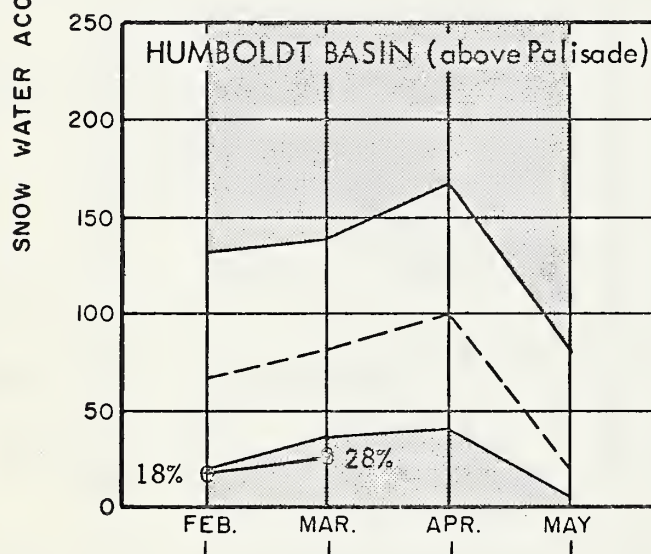
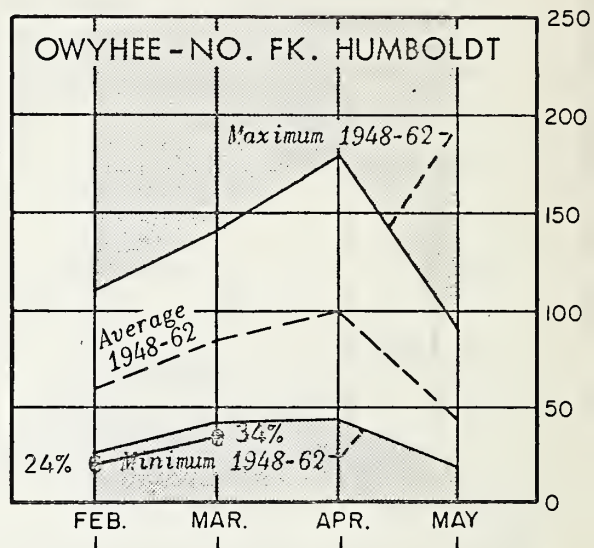
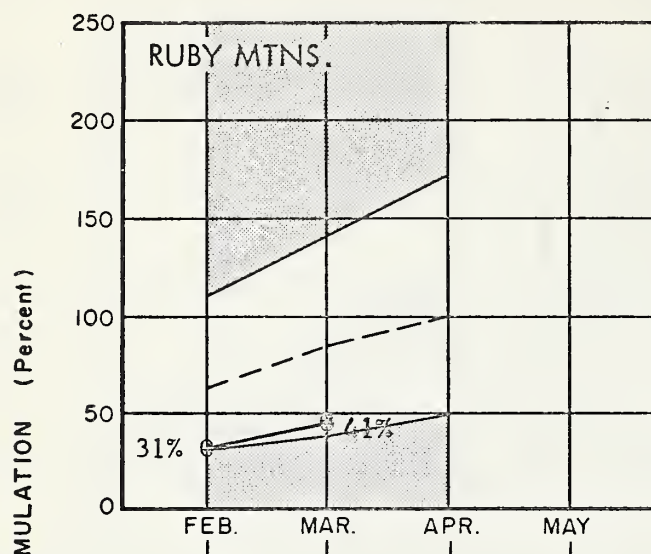
1968



SNOW WATER ACCUMULATION IN NEVADA

Percent of average maximum accumulation

1968



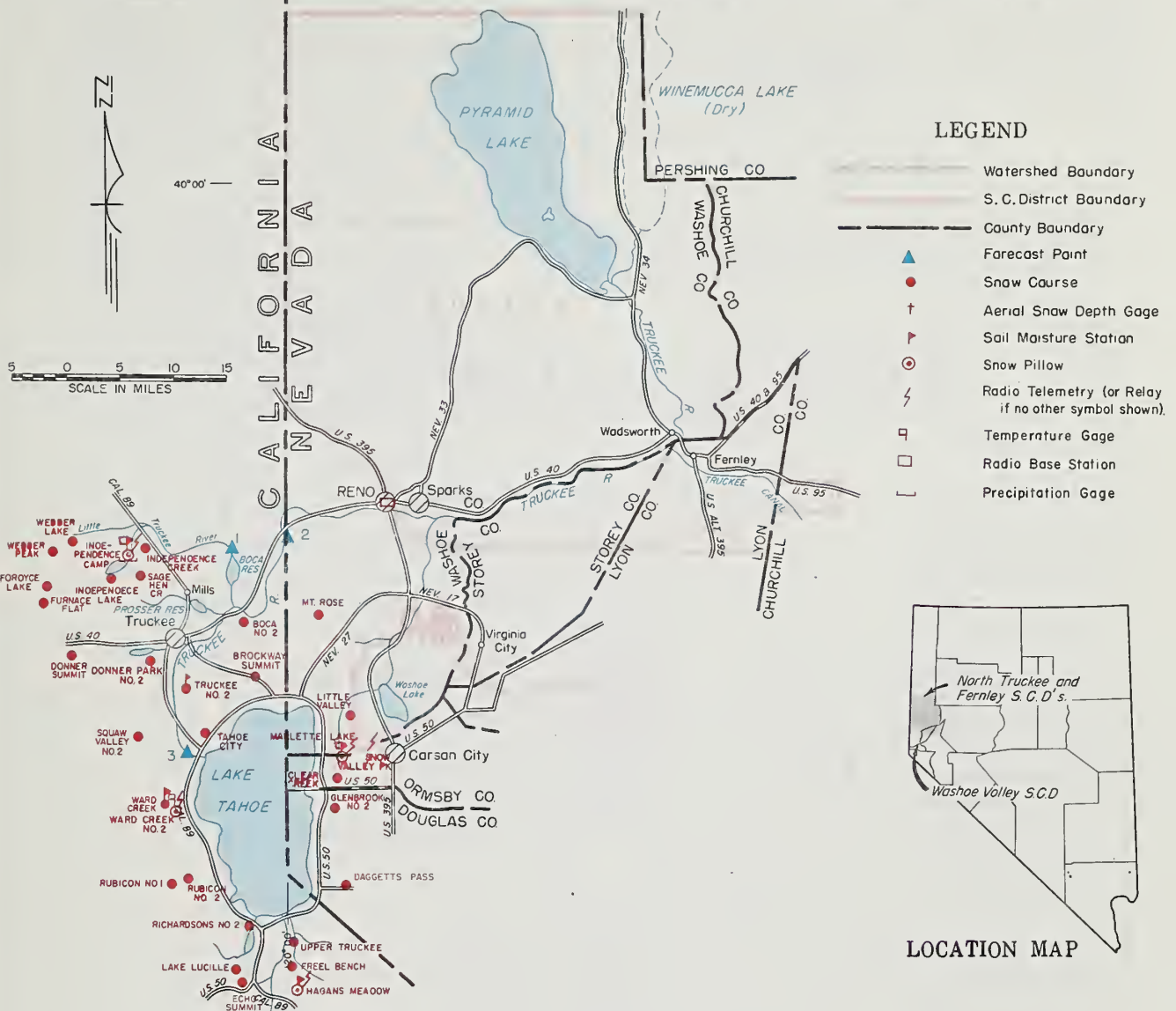
NOTE

———— 1968

----- 1948-62 Average

WATER SUPPLY OUTLOOK

NORTH TRUCKEE, FERNLEY & WASHOE VALLEY S.C.D.'s.
WASHOE, STOREY & LYON COUNTIES, NEVADA



March 1, 1968

March 1 snow surveys indicate that the snow pack in the Lake Tahoe Basin is about 75 percent of average. Warm temperatures and rain have caused the melt to start in the snow pack at high elevations, as indicated by remote radio sensors in the basin.

Lake Tahoe is forecast to rise 1.1 feet from April 1 to maximum elevation. This indicates that water in excess of the requirement to maintain Floriston rates will be released from Lake Tahoe to prevent the lake level from exceeding the maximum elevation of 6229.1. The Truckee at Farad is forecast to flow 242,000 acre-feet during April-July, and the Little Truckee above Boca 82,000 acre-feet, according to the Truckee Basin Water Committee.

Lake Tahoe hold 610,000 acre-feet which is 83,000 percent of capacity, or 154 percent of average.

STORAGE (1,000 Ac. Ft.)

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Lake Tahoe	732	610	444	395
Boca	41	4	2	6
Prosser <u>b/</u>	30	9	9	--

NOTE:

All averages based on 1948-62, 15 year period. Forecast period is April 1 through July 31 unless otherwise noted. a-Aerial marker; water content estimated. * 1948-62 adjusted average.

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
1. Little Truckee River above Boca	82	174	78
2. Truckee River at Farad, Calif.	242	550	269
3. Lake Tahoe rise (In feet from April 1, assuming gates closed.)	1.1	2.74	1.47

Note: Above forecasts prepared by the Truckee Basin Water Committee

SNOW

March 1, 1968

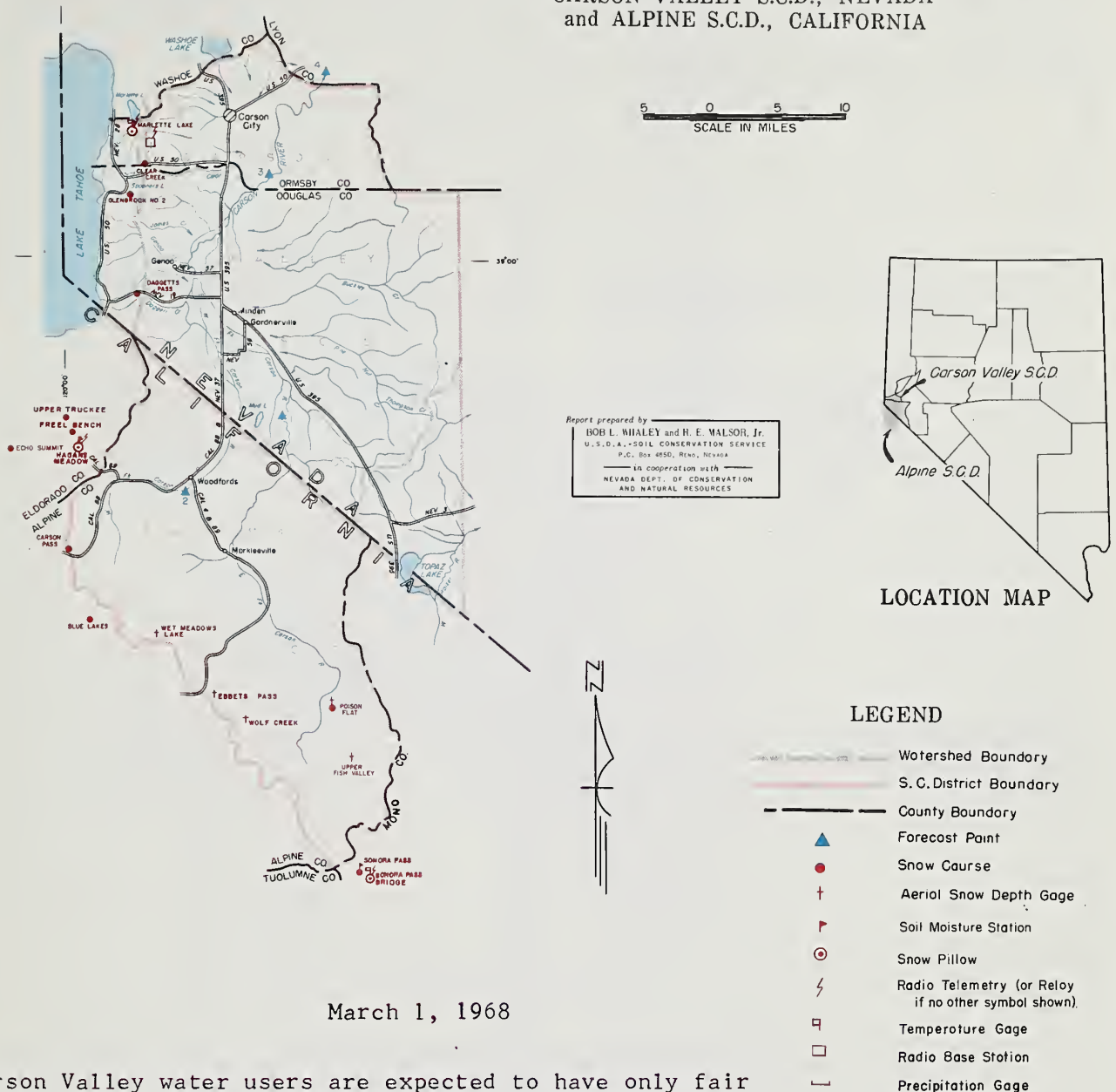
SNOW		March 1, 1968		CURRENT INFORMATION			PAST RECORD	
SNOW COURSE		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)			
NAME	ELEVATION				LAST YEAR	AVERAGE		
LAKE TAHOE								
Daggetts Pass	7350	2/26	19	6.8	14.7	11.2 *		
Echo Summit	7500	3/1	52	21.0	30.8	29.8		
Freel Bench	7300	2/27	21	8.4	12.1	12.0 *		
Glenbrook #2	6900	2/22	29	9.2	13.9	11.6 *		
Hagans Meadow	8000	2/27	31	11.3	20.3	16.9 *		
Little Valley	6300	2/29	13	5.1	11.5	11.6 *		
Marlette Lake	8000	2/26	44	17.2	24.2	18.4		
Richardsons #2	6500	2/22	40	13.9	17.4	17.6 *		
Rubicon #1	8100	2/24	84	30.6	43.9	40.4 *		
Rubicon #2	7500	2/24	54	21.1	26.4	24.7 *		
Tahoe City	6250	2/25	21	8.0	13.1	11.8		
Upper Truckee	6400	2/27	21	8.6	9.8	10.0 *		
Ward Creek	7000	2/28	67	29.0	41.0	38.6 *		
TRUCKEE RIVER								
Boca #2	5900	2/29	12	4.4	6.8	7.2 *		
Brockway Summit	7100	2/28	32	13.1	22.1	---		
Donner Park #2	6000	2/29	42	15.6	19.2	17.5 *		
Donner Summit	6900	2/26	62	26.8	38.2	33.9		
Fordyce Lake	6500	2/26	60	28.0a	31.0a	33.8 *		
Furnace Flat	6600	2/26	70	32.0a	43.0a	39.3 *		
Independence Camp	7000	2/29	43	18.6	25.2	20.5 *		
Independence Creek	6500	2/29	29	12.1	17.5	13.7 *		
Independence Lake	8450	2/29	71	30.6	47.6	33.3 *		
Sage Hen Creek	6500	2/29	35	15.2	22.1	17.4 *		
Squaw Valley #2	7500	3/2	80	35.1	49.9	44.9 *		

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
Hagans Meadow	8000	36	3.65	2/27	3.2	3.1	2.6
Independence Camp	7000	34	6.10	2/29	5.4	5.6	6.1
Marlette Lake	8000	50	3.70	2/26	2.0	2.7	3.1
Ward Creek	7000	49	5.80	2/28	5.8	5.6	5.8

WATER SUPPLY OUTLOOK

CARSON VALLEY S.C.D., NEVADA
and ALPINE S.C.D., CALIFORNIA



STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Lahontan	286	246	208	186

NOTE:

All averages based on 1948-62, 15 year period. Forecast period is April 1 through July 31 unless otherwise noted. a-Aerial marker; water content estimated. * 1948-62 adjusted average.

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
1. East Carson near Gardnerville	140	309	179
2. West Carson at Woodfords, Calif.	40	76	52
3. Carson River near Carson City	120	353	169
4. Carson River at Fort Churchill	100	326	155
Date 200 c.f.s. flow	7/12	8/31	7/20
East Carson near Gardnerville			

SNOW

March 1, 1968

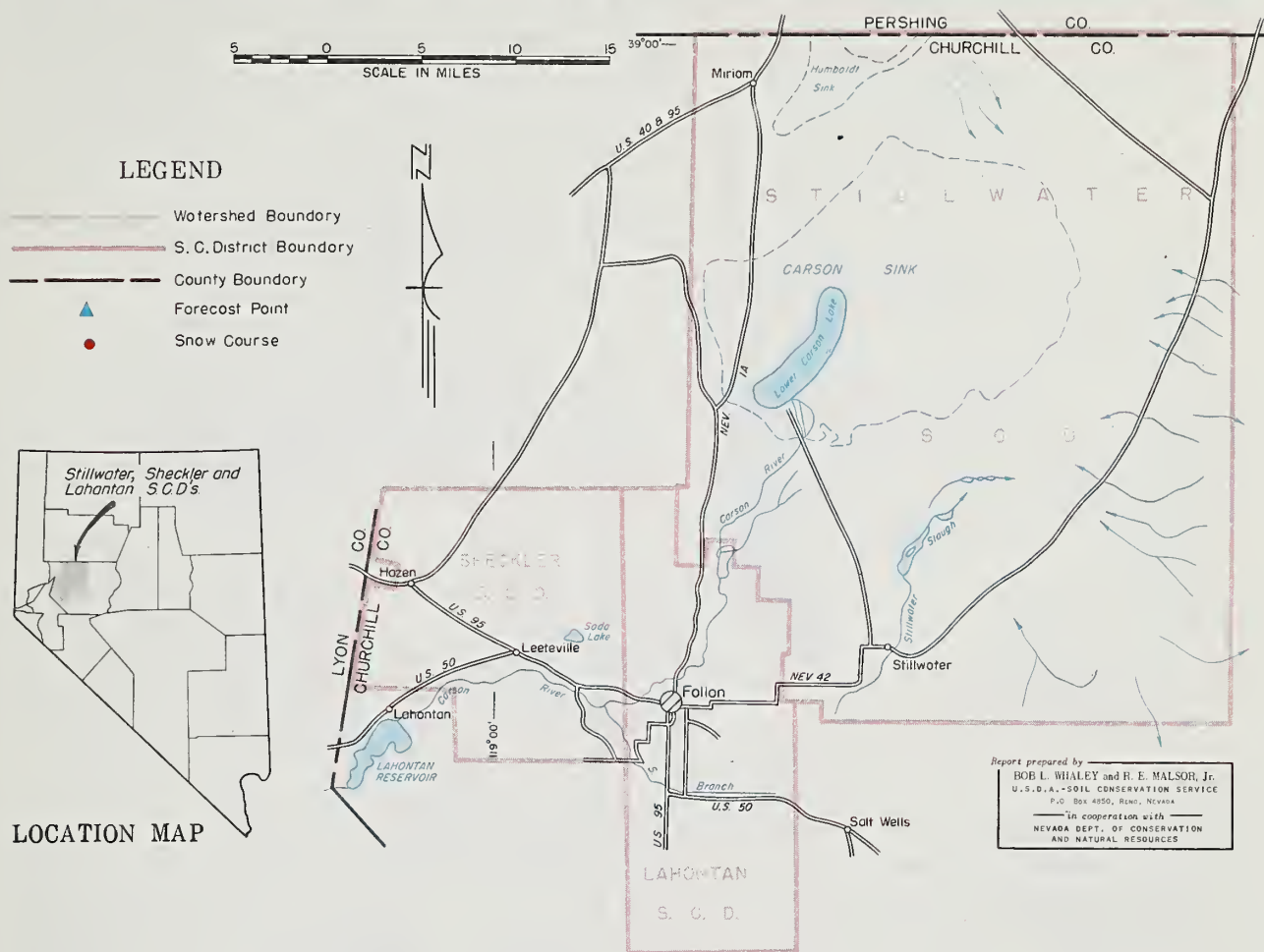
SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
Carson Pass, Upper	8600	2/25	61	24.9	35.3	28.2
Clear Creek	7300	2/29	23	8.1	14.8	12.9 *
Daggetts Pass	7350	2/26	19	6.8	14.7	11.2 *
Ebbetts Pass	8700	3/1	62	22.9a	---	---
Echo Summit	7500	3/1	52	21.0	30.8	29.8
Glenbrook #2	6900	2/22	29	9.2	13.9	11.6 *
Marlette Lake	8000	2/26	44	17.2	24.2	18.4
Poison Flat	7900	3/1	36	13.0a	20.4a	---
Sonora Pass	8800	2/23	45	15.4	25.8	20.2 *
Upper Fish Valley	8050	3/1	21	7.6a	15.2a	---
Wet Meadows Lake	8100	3/1	41	15.2a	29.2a	---
Wolf Creek	8000	3/1	45	16.6a	28.0a	---

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
Marlette Lake	8000	50	3.70	2/26	2.0	2.7	3.1
Sonora Pass	8800	48	8.30	1/26	7.7	8.3	8.3

WATER SUPPLY OUTLOOK

STILLWATER, SHECKLER, LAHONTAN S.C.D.'s. & VICINITY
CHURCHILL COUNTY, NEVADA



March 1, 1968

The 1968 water supply outlook for the Fallon area is boosted to "average" again this year, due to above-average reservoir storage.

Snow cover is 78 percent of the March 1 average and only 69 percent of last year at this time. Lower-elevation snow was washed away by warm temperatures and rain during February. Reservoir storage is above average.

Lake Tahoe held 610,000 acre-feet, or 155 percent of average, and Lahontan held 246,000 acre-feet, or 132 percent of its March 1 average.

The Carson at Fort Churchill is forecast to flow 100,000 acre-feet, or 65 percent of the April-July average. The Truckee Basin Forecast Committee forecasts the Truckee to flow 242,000 acre-feet, or 90 percent of average, and Lake Tahoe is expected to rise 1.1 feet in elevation after April 1, assuming the gates remain closed.

Plate 3

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Lake Tahoe	732	610	444	395
Lahontan	286	246	208	186

NOTE:

All averages based on 1948-62, 15 year period. Forecast period is April 1 through July 31 unless otherwise noted. a-Aerial marker; water content estimated. * 1948-62 adjusted average.

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
1. Truckee River at Farad, Calif. **		550	269
2. Lake Tahoe rise** (In feet from April 1 assuming gates closed.)	2.74	1.47	
3. Carson River at Fort Churchill		326	155

** Forecasts prepared by Truckee Basin Water Committee

SNOW

March 1, 1968

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
TRUCKEE						
Boca #2	5900	2/29	12	4.4	6.8	7.2 *
Donner Summit	6900	2/26	62	26.8	38.2	33.9
Fordyce Lake	6500	2/26	60	28.0a	31.0a	33.8 *
Furnace Flat	6600	2/26	70	32.0a	43.0a	39.3 *
Independence Camp	7000	2/29	43	18.6	25.2	20.5 *
Sage Hen Creek	6500	2/29	35	15.2	22.1	17.4 *
TAHOE						
Daggetts Pass	7350	2/26	19	6.8	14.7	11.2 *
Echo Summit	7500	3/1	52	21.0	30.8	29.8 *
Hagans Meadow	8100	2/27	31	11.3	20.3	16.9 *
Tahoe City	6250	2/25	21	8.0	13.1	11.8
Ward Creek	7000	2/28	67	29.0	41.0	38.6 *
CARSON RIVER						
Carson Pass, Upper	8600	2/25	61	24.9	35.3	28.2
Clear Creek	7300	2/29	23	8.1	14.8	12.9 *
Sonora Pass	8800	2/23	45	15.4	25.8	20.2 *

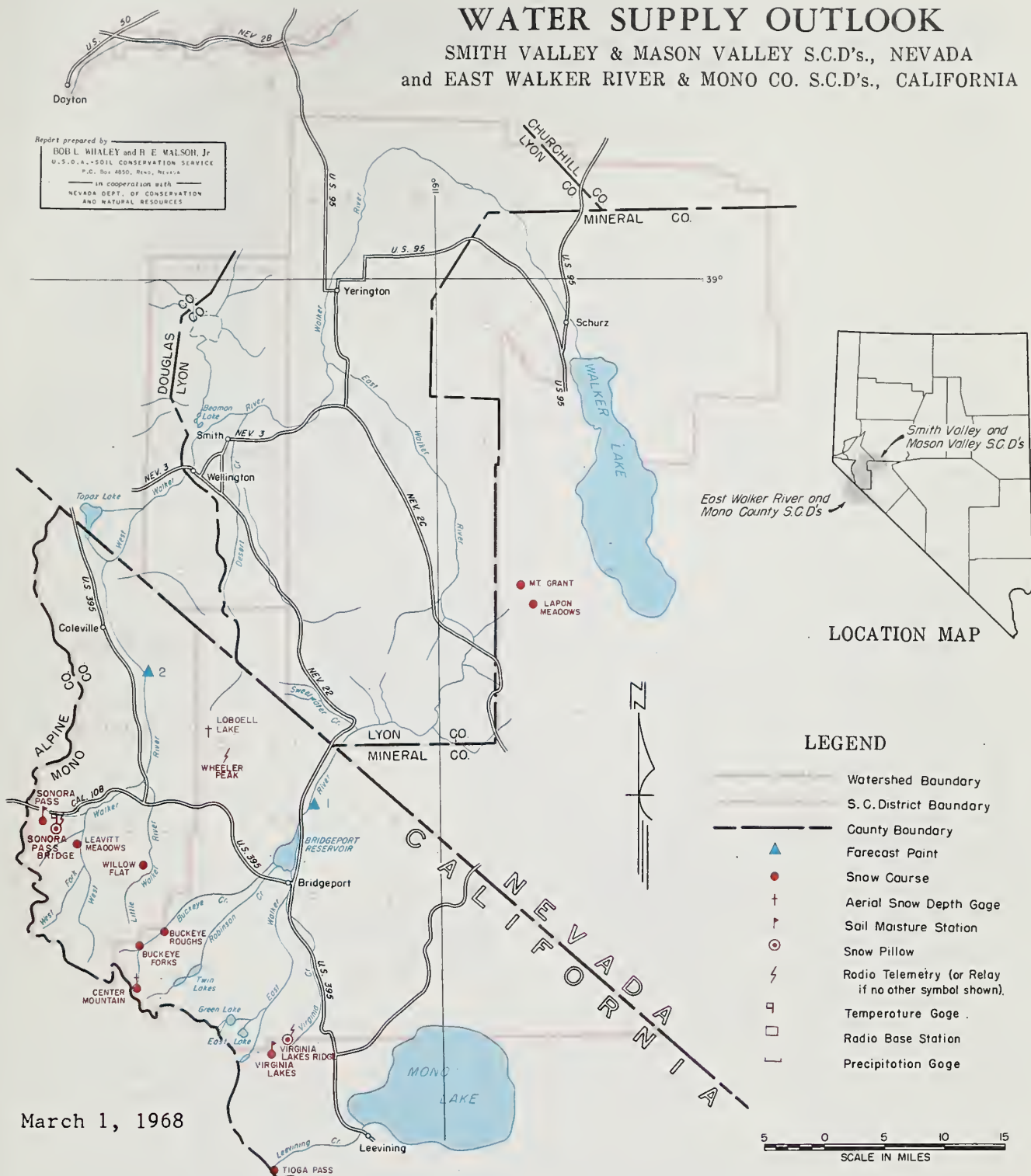
SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
Hagans Meadow	8000	36	3.65	2/27	3.2	3.1	2.6
Independence Camp	7000	34	6.10	2/29	5.4	5.6	6.1
Marlette Lake	8000	50	3.70	2/26	2.0	2.7	3.1
Sonora Pass	8800	48	8.30	1/26	7.7	8.3	8.3
Ward Creek	7000	49	5.80	2/28	5.8	5.6	5.8

WATER SUPPLY OUTLOOK

SMITH VALLEY & MASON VALLEY S.C.D.'s., NEVADA
and EAST WALKER RIVER & MONO CO. S.C.D.'s., CALIFORNIA

Report prepared by
BOB L. WHALEY and R. E. WALSH, Jr.
U.S.D.A. - SOIL CONSERVATION SERVICE
P.O. Box 4850, Reno, Nevada
in cooperation with
NEVADA DEPT. OF CONSERVATION
AND NATURAL RESOURCES



March 1, 1968

Water users on the Walker River who use water stored in the Topaz and Bridgeport reservoirs can expect a good supply this year. Users who depend on natural streamflow will have only a fair supply, with little late-season flow. Topaz and Bridgeport reservoirs are near capacity at 58,000 and 41,000 acre-feet respectively. Walker River Basin snow pack is 63 percent of the March 1 average with little low-elevation snow remaining. Remote radio sensors indicate the melt started at high elevations about February 20.

The East Walker near Bridgeport is forecast to flow 40,000 acre-feet, or 70 percent of average (1948-62), while the West Walker near Coleville is expected to flow 110,000 acre-feet, or 78 percent of average.

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Topaz	59	58	34	34
Bridgeport	42	41	28	28

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
1. East Walker near Bridgeport, Calif. **	40	136	57
2. West Walker below E. Fk. near Colville, Calif.	110	236	140

** April-August runoff corrected for change in Bridgeport Reservoir.

NOTE:

All averages based on 1948-62, 15 year period. Forecast period is April 1 through July 31 unless otherwise noted. a-Aerial marker; water content estimated. * 1948-62 adjusted average.

SNOW

March 1, 1968

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
Center Mountain	9400	3/1	67	22.1a	30.0a	---
Lobdell Lake	9200	3/1	23	7.6a	14.7a	---
Sonora Pass	8800	2/23	45	15.4	21.0	20.2 *
Virginia Lakes	9500	2/23	27	7.9	15.2	15.9 *

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
Sonora Pass	8800	48	8.30	1/26	7.7	8.3	8.3

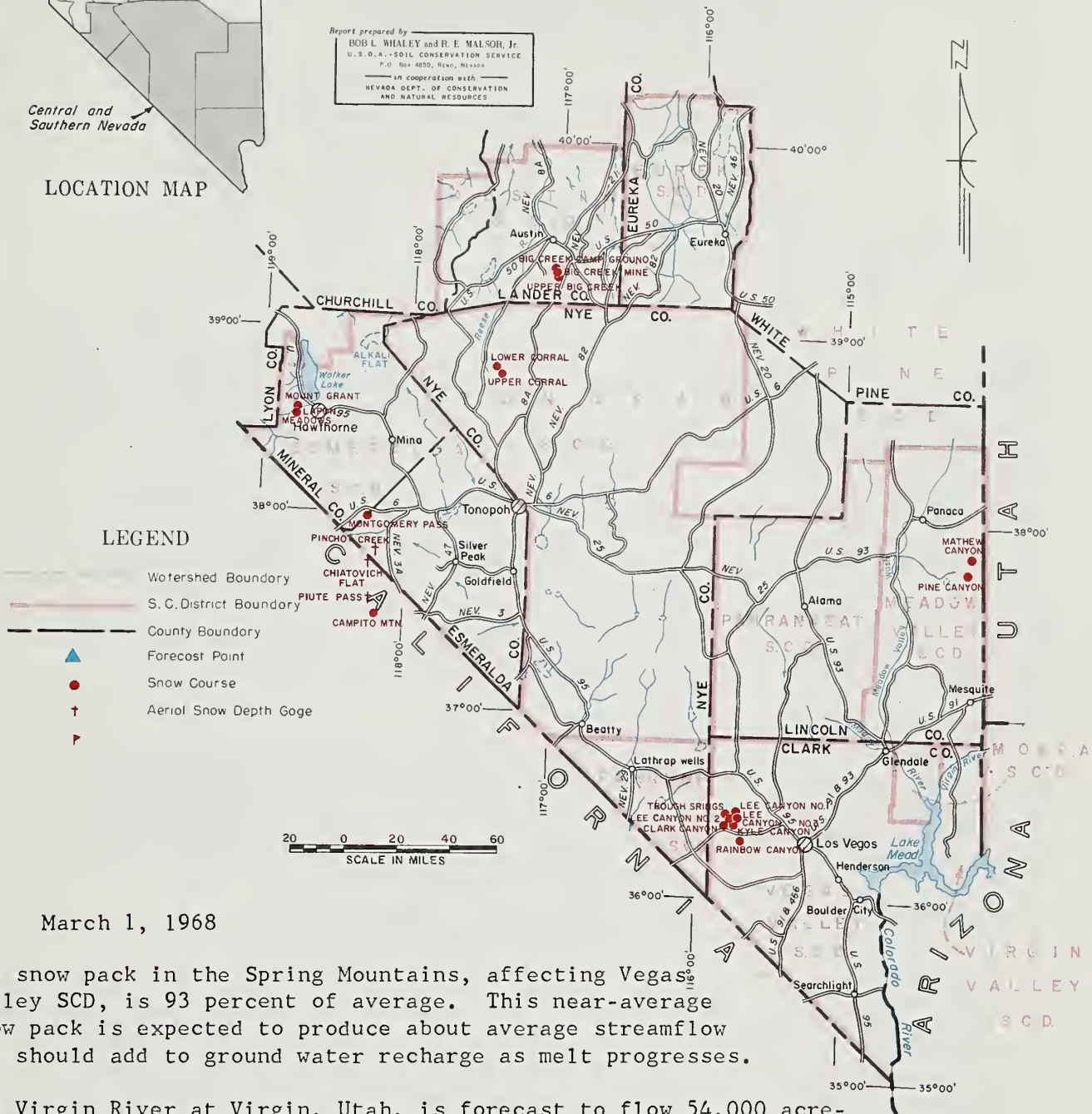
WATER SUPPLY OUTLOOK

CHURCHILL, CLARK, ESMERALDA, EUREKA, LANDER, LINCOLN, MINERAL and NYE COUNTIES, NEVADA

Report prepared by
BOB L. WHALEY and R. E. MALSOR, Jr.
U.S.D.A., SOIL CONSERVATION SERVICE
P.O. Box 4850, Reno, Nevada
in cooperation with
NEVADA DEPT. OF CONSERVATION
AND NATURAL RESOURCES

Central and
Southern Nevada

LOCATION MAP



March 1, 1968

The snow pack in the Spring Mountains, affecting Vegas Valley SCD, is 93 percent of average. This near-average snow pack is expected to produce about average streamflow and should add to ground water recharge as melt progresses.

The Virgin River at Virgin, Utah, is forecast to flow 54,000 acre-feet, or 126 percent of average, during the April-June period.

Snow courses in the Tonopah SCD indicate only about 86 percent of average water content on February 28, although a 24-inch snowfall was recorded in the city of Tonopah in a two-day period during the month.

Snow measurements affecting Austin, Meadow Valley, and Esmeralda SCD's indicate much below-average water content this year. Streamflow in these areas is already underway and is expected to recede much earlier than usual, unless above-normal precipitation occurs this spring.

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Mohave **	1,810	1,637	1,662	1,357
Mead	27,220	14,614	15,617	17,037
** Storage began in 1950				

NOTE:

All averages based on 1948-62, 15 year period. Forecast period is April 1 through July 31 unless otherwise noted. a-Aerial marker; water content estimated. * 1948-62 adjusted average.

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
Virgin at Virgin, Utah	54	NA	43
April-June forecast by SCS, Salt Lake City, Utah			

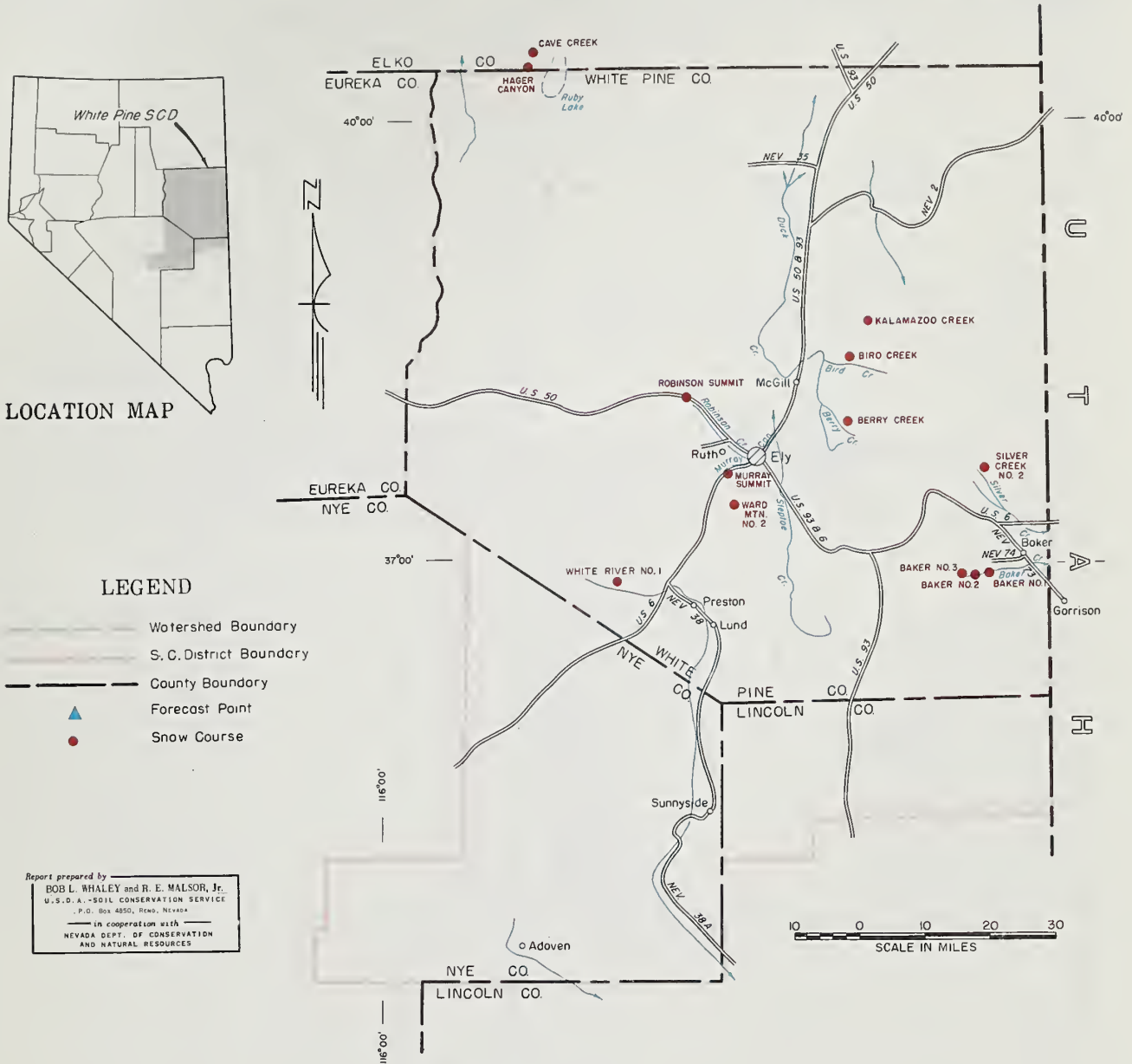
SNOW

March 1, 1968

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
AUSTIN SCD						
Big Creek Campground	6600	2/27	1	0.5	3.0	1.9 *
Big Creek Mine	7600	2/27	11	2.3	3.5	3.7 *
Upper Big Creek	7800	2/27	12	4.0	3.8	5.8 *
TONOPAH SCD						
Lower Corral	7500	2/28	2	1.0	2.0	1.4 *
Upper Corral	8500	2/28	12	4.1	4.1	4.5 *
ESMERALDA SCD						
Campito	10200	2/29	7	1.7	2.7	7.4 *
Chiatovich Flat	10500	3/1	4	1.0a	1.0a	---
Montgomery Pass	7100	2/29	0	0.0	1.4	1.9 *
Pinchot Creek	9300	3/1	0	0.0a	0.5a	---
Piute Pass	11700	3/1	0	0.0a	1.5a	---
VEGAS VALLEY SCD						
Clark Canyon	9000	2/29	23	7.5	9.6	7.1 *
Kyle Canyon	8200	2/28	24	8.6	11.5	8.9
Lee Canyon #1	8300	-	--	---	8.3	7.6
Lee Canyon #2	9000	2/27	23	7.4	11.5	8.4
Lee Canyon #3	8400	2/27	27	8.8	8.8	---
Rainbow Canyon #2	8100	2/27	42	13.1	17.0	13.2
Trough Springs	8500	2/29	12	3.9	7.3	6.1
MEADOW VALLEY SCD						
Mathew Canyon	6200	2/29	1	0.3	1.1	2.0 *
Pine Canyon	6000	2/29	3	1.2	2.5	2.1 *

WATER SUPPLY OUTLOOK

WHITE PINE S.C.D., WHITE PINE, LINCOLN & NYE COUNTIES, NEVADA



Early-season streamflow in White Pine County is expected to be fair, with poor late-season flows.

Snow cover, county-wide, is about 72 percent of the March 1 average. The Snake range, near Baker, has near-average snow water on the Baker Creek watershed. The Schell range, near McGill, has about 72 percent of average snow cover. Ward Mountain, Silver Creek, and Baker #3 snow courses were observed by airplane this year, with the water content being estimated. These water contents should not be compared to the average of the whole snow course as measured in past years.

Lower-elevation snow courses at Murray Summit, Robinson Summit, and White River showed only a trace of snow or were completely bare.

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE

NOTE:

All averages based on 1948-62, 15 year period. Forecast period is April 1 through July 31 unless otherwise noted, a-Aerial marker; water content estimated. * 1948-62 adjusted average.

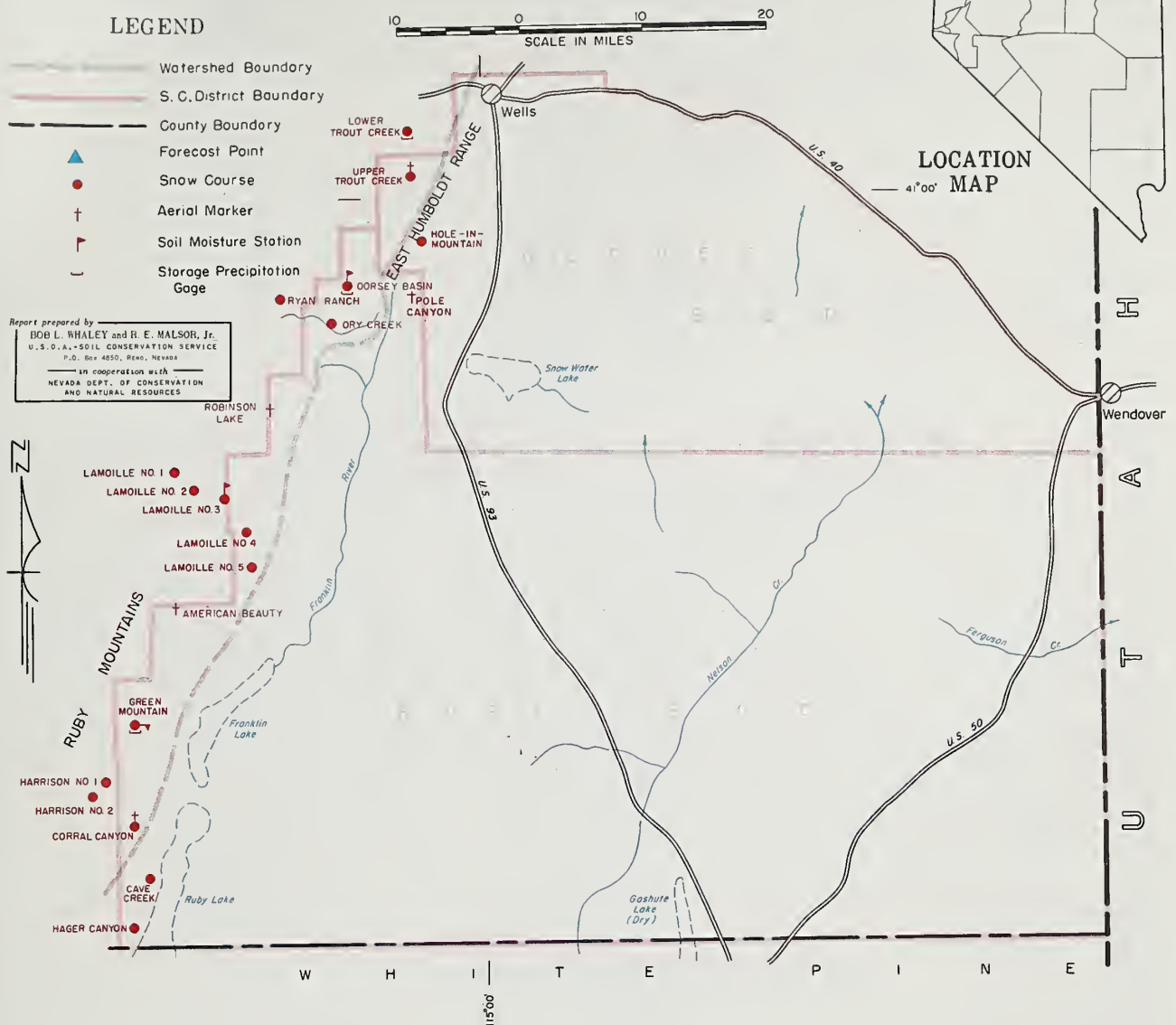
SNOW

March 1, 1968

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
Baker #1	7950	2/27	25	7.2	5.9	5.9
Baker #2	8950	2/27	43	11.8	13.1	13.5
Baker #3	9250	2/29	44	11.9 _a	15.9	15.1
Berry Creek	9100	2/28	37	10.0	11.5	12.6
Bird Creek	7500	2/28	11	3.0	6.0	4.0
Cave Creek	7500	2/26	16	5.3	12.0	13.5
Hager Canyon	8000	2/26	31	11.0	16.5	18.0
Kalamazoo Creek	7400	2/29	20	6.0	9.6	7.1 *
Murray Summit	7250	2/29	T	T	3.3	3.3
Robinson Summit	7600	3/1	T	T	3.0	3.2 *
Silver Creek #2	8000	2/29	21	6.1 _a	6.1	4.5 *
Ward Mountain #2	8900	2/29	20	5.4 _a	10.4	16.7 *
White River #1	7400	2/29	0	0.0	3.3	2.9 *

WATER SUPPLY OUTLOOK

CLOVER & RUBY S.C.D.'s., ELKO COUNTY, NEVADA



March 1, 1968

The 1968 water supply outlook for Clover and Ruby SCD's is well below average.

Snow cover along the Rubys did not increase significantly during February, and it is now only 50 percent of the March 1 average. Low-elevation snow was washed off by rain or melted by warmer-than-average temperatures.

Watershed soils are well primed and should aid runoff and forage production.

Streams are expected to have fair early flows, but they will recede earlier than usual unless above-average precipitation occurs during the remainder of the spring and summer again this year.

Plate 7

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE

NOTE:

All averages based on 1948-62, 15 year period. Forecast period is April 1 through July 31 unless otherwise noted. a-Aerial marker; water content estimated. * 1948-62 adjusted average.

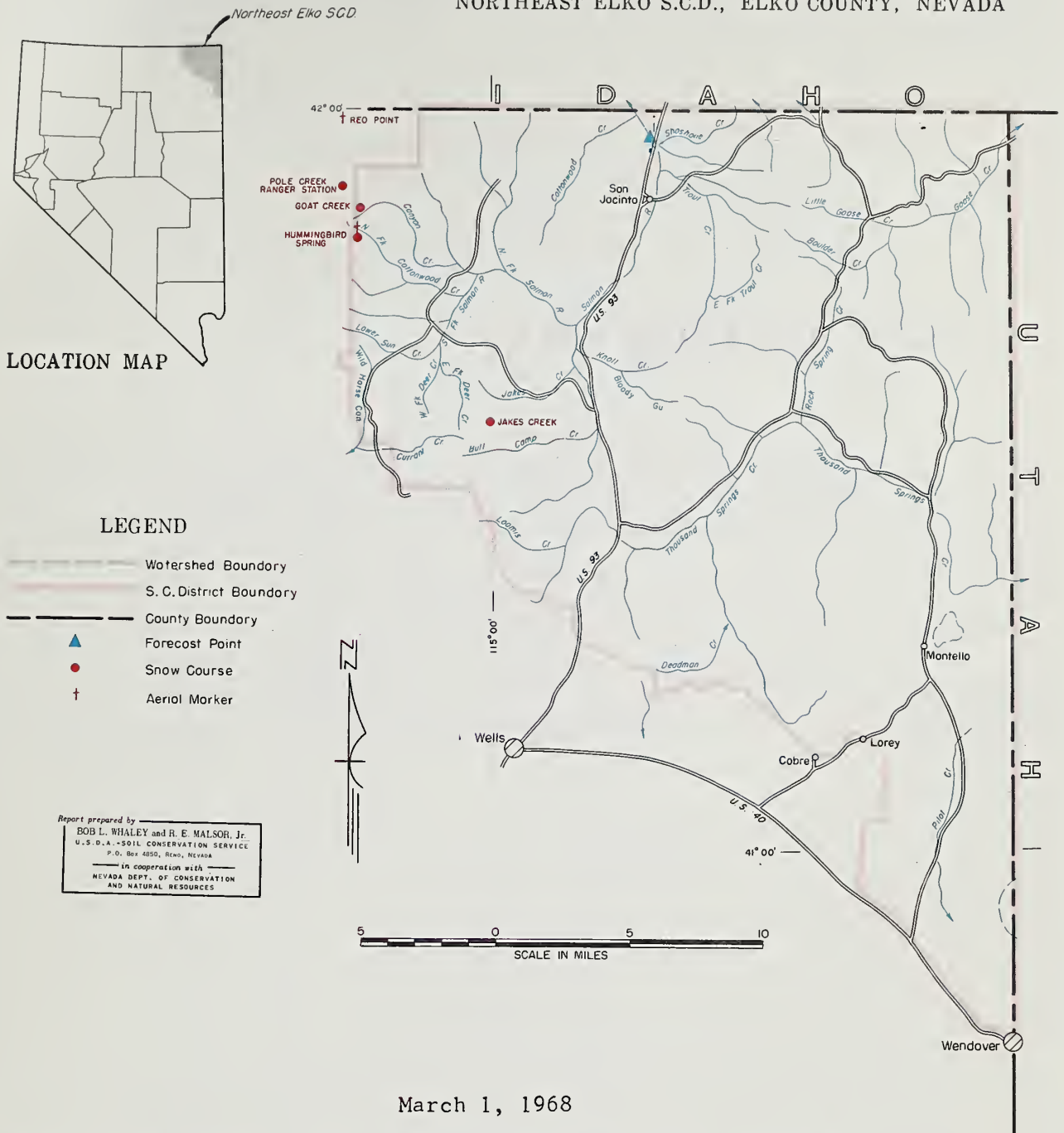
SNOW

March 1, 1968

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
American Beauty	7800	2/28	10	3.3a	8.8a	---
Cave Creek	7500	2/26	16	4.8	12.0	13.5
Corral Canyon	8500	2/28	24	7.7a	9.4a	16.0
Dorsey Basin	8100	2/26	19	6.3	10.2	10.5
Dry Creek	6500	2/26	0	0.0	3.7	4.6
Green Mountain	8000	2/27	21	6.7	9.6	11.8*
Hager Canyon	8000	2/26	31	10.6	16.5	18.0
Harrison Pass #1	6600	2/27	0	0.0	4.1	4.2
Harrison Pass #2	7400	2/27	0	0.0	6.0	5.9*
Hole-in-Mountain	7900	3/1	29	10.5	19.0	17.6*
Lamoille #1	7100	2/28	11	3.6	9.6	9.3
Lamoille #2	7300	2/28	10	3.7	8.8	8.8
Lamoille #3	7700	2/28	22	7.2	11.6	11.4
Lamoille #4	8000	2/28	30	10.5	17.3	16.6
Lamoille #5	8700	2/28	51	17.8	21.8	24.3*
Pole Canyon	9140	2/28	33	11.6a	2.7a	---
Ryan Ranch	5800	2/26	0	0.0	T	1.9
Trout Creek, Lower	6900	2/28	T	T	3.9	3.1*
Trout Creek, Upper	8500	2/28	12	4.2a	4.2a	18.7*
Robinson Lake	9200	2/28	46	15.6a	22.0a	---

WATER SUPPLY OUTLOOK

NORTHEAST ELKO S.C.D., ELKO COUNTY, NEVADA



The 1968 water supply outlook for Northeast Elko SCD is only fair.

Snow measurements taken on February 26 show 75 percent of average snow cover and about 27 percent less than last year at this time. Streamflow forecasts for Salmon Falls Creek are only 68 percent of average. Forecasts indicate 53,000 acre-feet is expected during March-September and 52,000 acre-feet March-July.

Small streams of the area can be expected to flow early and will dry up earlier than usual, unless above-average precipitation occurs during the runoff season.

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
Salmon Falls Creek near San Jacinto			
March-September	53	--	78
March-July	52	--	76
Forecasts issued by Boise, Idaho	SCS,		

NOTE:

All averages based on 1948-62, 15 year period. Forecast period is April 1 through July 31 unless otherwise noted. a-Aerial marker; water content estimated. * 1948-62 adjusted average.

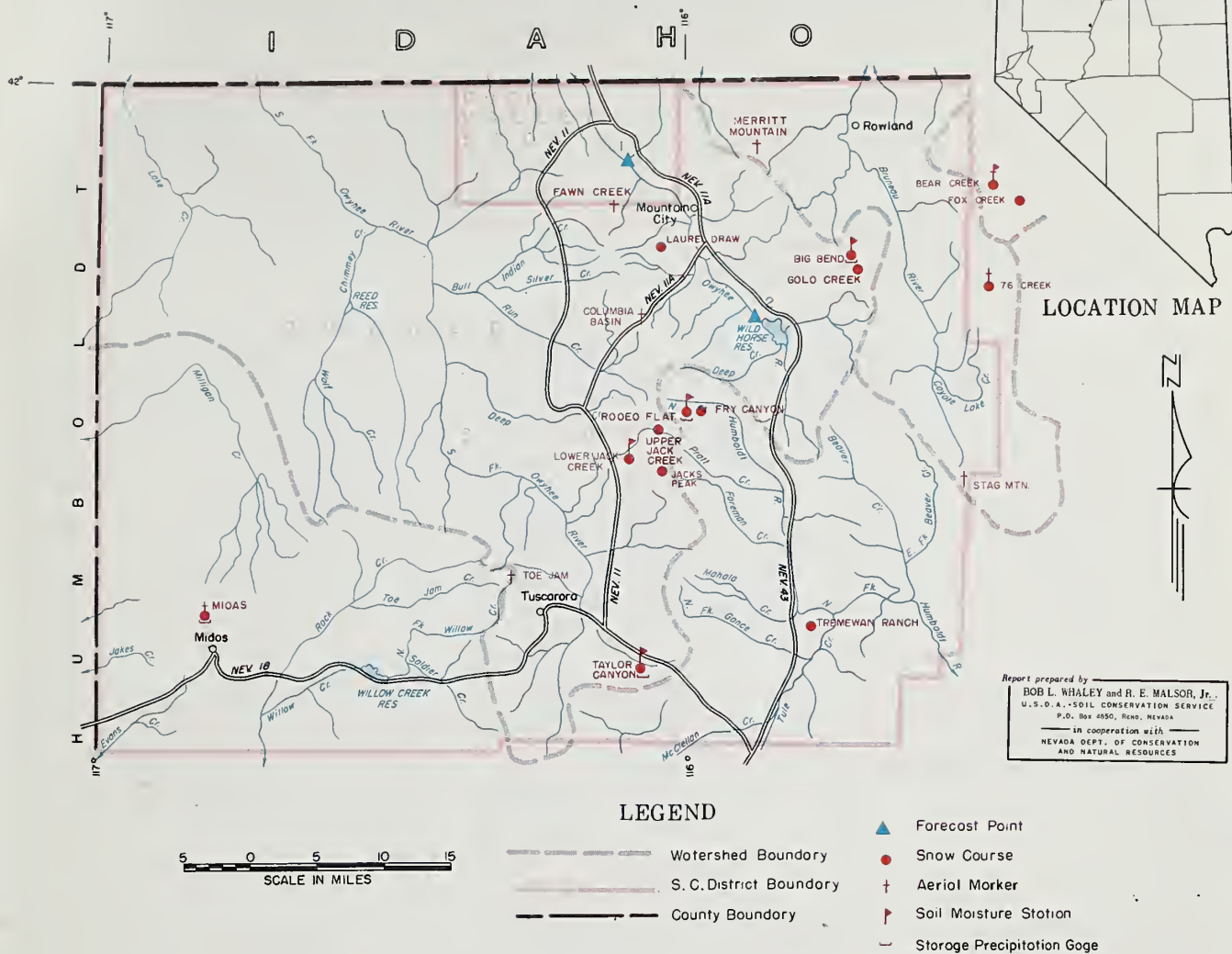
SNOW

March 1, 1968

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
Goat Creek	8800	2/26	35	11.8	15.2	15.9 *
Hummingbird Springs	8945	2/26	44	13.4	19.4	18.4 *
Pole Creek Ranger Station	8330	2/26	36	12.2	16.3	15.7 *
Red Point	7940	2/26	18	7.0a	10.0a	---

WATER SUPPLY OUTLOOK

DUCK VALLEY & OWYHEE S.C.D.'s. ELKO COUNTY, NEVADA



March 1, 1968

Duck Valley and Owyhee SCD's are expected to have "poor" irrigation water supplies this year.

Snow cover over the area is now only 37 percent of average, with lower elevations completely bare.

Above-average precipitation during February coupled with warm temperatures caused snow melt to about the 7,000-foot elevation. Watershed soils are now well primed in this area and should add to future runoff.

Streamflow forecasts on the Owyhee are 36 percent, or 8,000 acre-feet, at Gold Creek and 43 percent, or 32,000 acre-feet, at Owyhee. Smaller streams are expected to flow early and will recede earlier than usual unless above-average precipitation occurs during the runoff period.

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Wild Horse	33	6	3	14

NOTE:

All averages based on 1948-62, 15 year period. Forecast period is April 1 through July 31 unless otherwise noted. a-Aerial marker; water content estimated. * 1948-62 adjusted average.

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST		MEASURED	
	THIS YEAR	LAST YEAR	LAST YEAR	AVERAGE
1. Owyhee River near Owyhee **	32	72		74
2. Owyhee River near Gold Creek **	8	11		22
** Corrected for change in storage in Wild Horse Reservoir.				

SNOW

March 1, 1968

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
					LAST YEAR	AVERAGE
NAME	ELEVATION					
Bear Creek	7800	2/26	39	13.2	18.1	16.6 *
Big Bend	6700	2/29	8	2.9	6.5	8.5
Columbia Basin	6650	2/28	0	0.0a	8.1a	---
Fawn Creek	7000	2/28	T	T a	6.5a	---
Fox Creek	6800	2/26	16	5.8	9.1	9.4 *
Fry Canyon	6700	2/29	0	0.0	6.9	7.8
Gold Creek	6600	2/29	0	0.0	4.6	6.1 *
Jack Creek, Upper	7250	2/28	6	2.2a	6.6a	9.5 *
Laurel Draw	6700	2/27	6	2.2	7.7	7.9 *
Merritt Mountain	7800	-	-	---	7.8a	---
Midas	7200	2/28	T	T	3.2a	---
Rodeo Flat	6800	2/29	0	0.0	4.9	7.3
76 Creek	7100	2/26	20	7.0	9.6a	11.5 *
Stag Mountain	7700	2/28	8	2.9a	6.1a	---
Taylor Canyon	6200	2/27	0	0.0	6.5	4.6
Toe Jam	7700	2/28	14	5.0a	10.0a	---
Tremewan Ranch	5700	2/29	0	0.0	3.0	1.4

SOIL MOISTURE

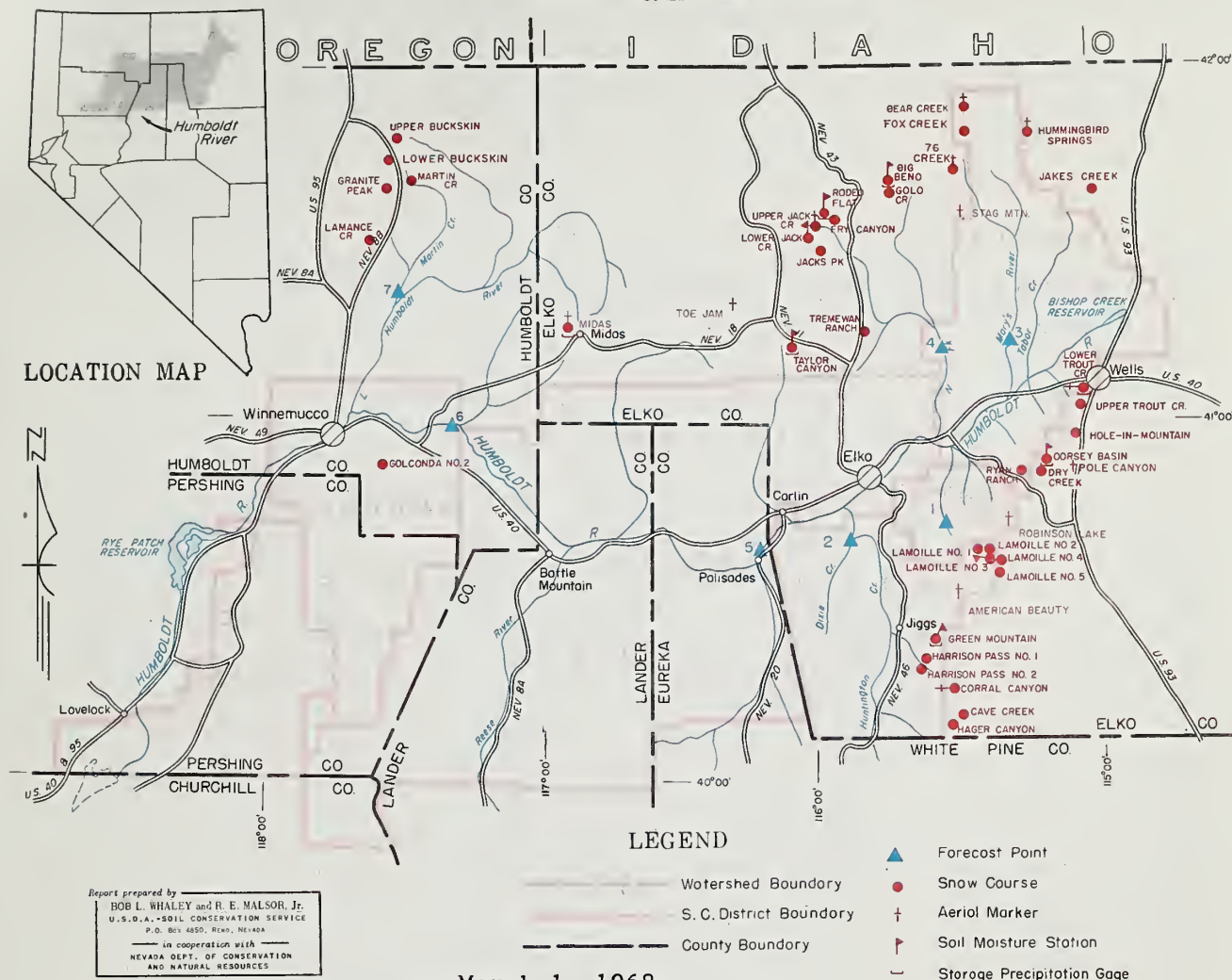
STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
Bear Creek	7800	72	16.9	-	---	8.7	11.0
Big Bend	6700	48	16.7	2/29	15.5	15.1	15.1
Rodeo Flat	6800	42	11.0	2/29	10.9	10.5	10.6
Taylor Canyon	6200	48	15.1	2/29	14.6	12.2	12.4

WATER SUPPLY OUTLOOK

HUMBOLDT RIVER

CHURCHILL, ELKO, EUREKA, HUMBOLDT, LANDER & PERSHING COUNTIES, NEVADA

25 0 25 50
SCALE IN MILES



March 1, 1968

Humboldt River water supplies are expected to be "poor" this year for water users without storage. Rye Patch water users are expected to receive about half of their usual allotment, or 1.5 acre-feet, unless conditions improve during the next few weeks.

Snow cover in the Humboldt Basin is only 43 percent of the 15-year average (1948-62) and only about half as much as last year at this time. Precipitation was above average over most of the basin during February, but occurred as rain due to warm temperatures. Rye Patch Reservoir held about 60,000 acre-feet on March 1 compared to the average of 63,000. Streamflow during the month was only 70 percent of average at Palisade, with watershed soils soaking up a good portion of the rain and snow melt runoff.

Streamflow forecasts range from 38 percent, or 13,000 acre-feet, for the North Fork of the Humboldt to 65 percent, or 17,000 acre-feet, for Lamoille Creek during the April-July period. The South Fork Humboldt is expected to flow 30,000 acre-feet or 50 percent of average, and Marys River 20,000 acre-feet or 59 percent of its April-July average. The Humboldt at Palisade is forecast to flow 75,000 acre-feet, or 43 percent of average, and Martin Creek near Paradise Valley is expected to flow 7,000 acre-feet, or 41 percent of average.

Plate 10

Kings River, Paradise Valley & Quinn River S.C.D's.

WATER SUPPLY OUTLOOK

KINGS RIVER, PARADISE VALLEY & QUINN RIVER S.C.D's.

HUMBOLDT COUNTY, NEVADA

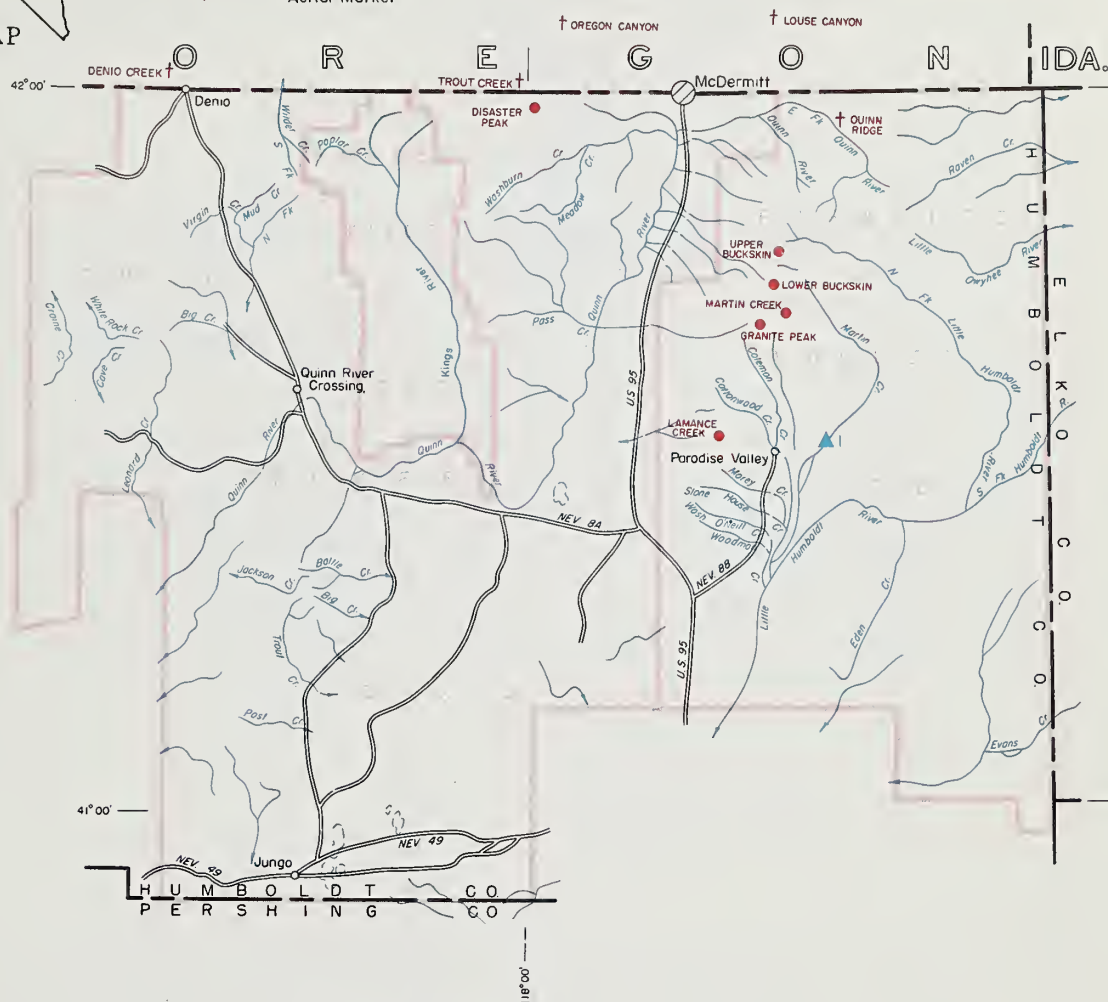
10 0 10 20
SCALE IN MILES

LEGEND

- Watershed Boundary
- S.C. District Boundary
- County Boundary
- ▲ Forecast Point
- Snow Course
- † Aerial Marker

Report prepared by
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AND NATURAL RESOURCES

LOCATION MAP



March 1, 1968

The 1968 water supply outlook for Paradise Valley and the McDermitt area is poor. Snow cover is only 49 percent of the March 1 average and only 36 percent of last year's cover at this time. Snow has melted off lower elevations completely, and Granite Peak is the only snow course at higher elevation which has a near-average snow water content.

Martin Creek is forecast to flow 7,000 acre-feet, or 41 percent of average for the April-July period. Streams in this area are expected to flow early and drop early to yield poor late-season water supplies, unless above-average precipitation occurs during the remainder of the spring and summer months.

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Rye Patch	179	60	73	63

NOTE:

All averages based on 1948-62, 15 year period. Forecast period is April 1 through July 31 unless otherwise noted. a-Aerial marker; water content estimated. * 1948-62 adjusted average.

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
1. Martin Creek near Paradise Valley	7	25	17
2. Humboldt River at Palisade	75	200	173
3. Humboldt River at Comus	51	134	127

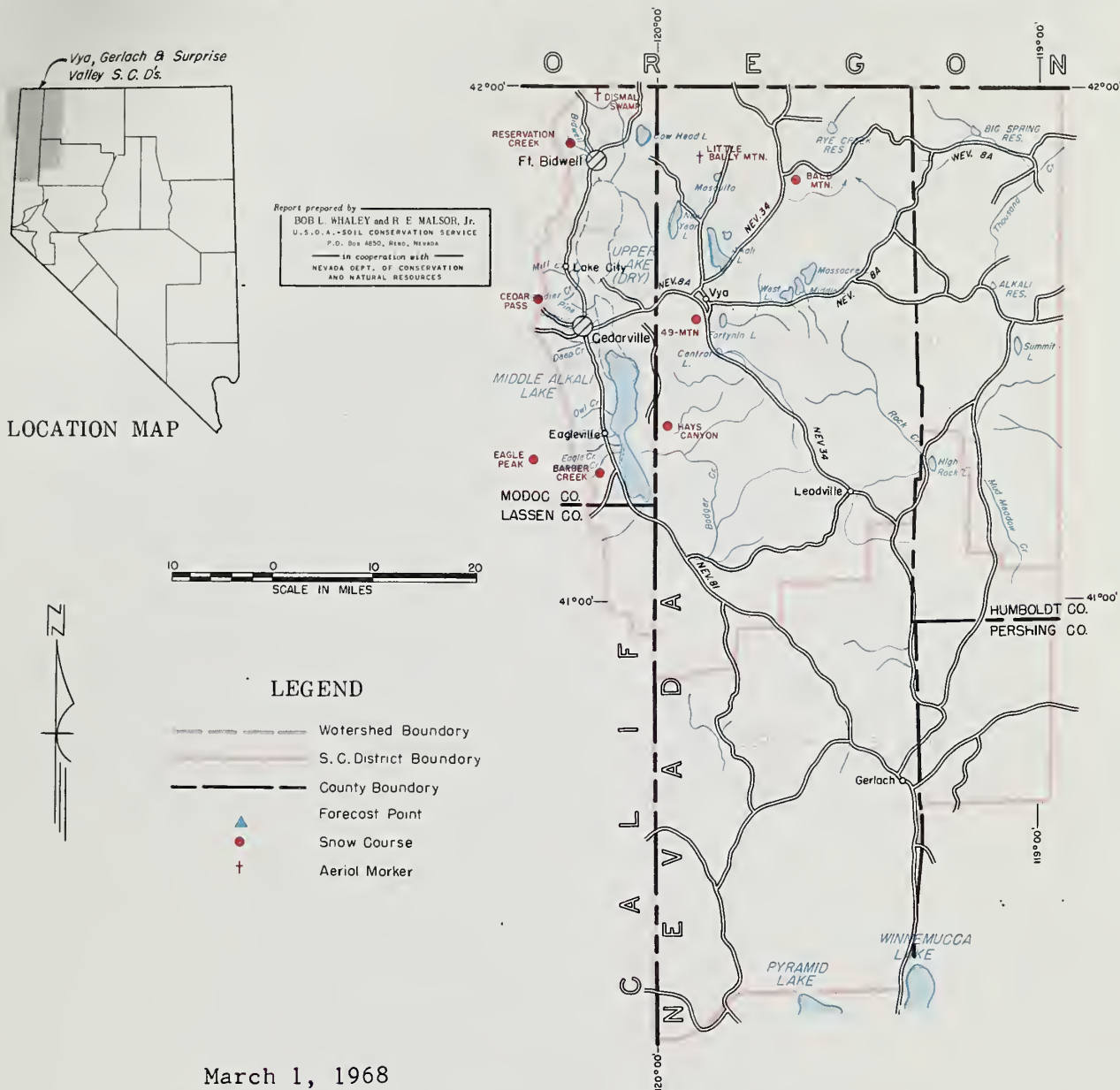
SNOW

March 1, 1968

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
Buckskin, Lower	6700	2/29	9	3.0	7.3	8.5 *
Buckskin, Upper	7200	2/29	15	4.4	8.6	7.9 *
Disaster Peak	6500	2/27	12	3.4	12.2	14.6 *
Denio Creek	6000	2/27	0	0.0a	T a	---
Granite Peak	7800	2/29	34	11.0	15.2	10.9
Lamance Creek	6000	2/28	5	2.0	8.6	8.9
Louse Canyon (Oregon)	6440	2/27	0	0.0a	7.9a	---
Martin Creek	6700	2/29	15	5.2	12.7	8.9
Oregon Canyon (Oregon)	7240	2/27	T	T	8.9a	---
Quinn Ridge	6300	2/27	0	0.0a	2.4a	---
Trout Creek (Oregon)	7800	2/27	12	9.3a	9.9a	---

WATER SUPPLY OUTLOOK

VYA & GERLACH S.C.D.'S., NEVADA and SURPRISE VALLEY S.C.D., CALIFORNIA



The 1968 water supply outlook for Surprise Valley is only fair. Snow cover on Surprise Valley streams is only 44 percent of the March 1 average and 44 percent of last year at this time. Individual snow courses range from 26 percent of the March 1 average at 49 Mountain to 78 percent on Barber Creek.

Streamflow forecasts for the April-September period range from 69 percent of average, or 26,000 acre-feet, on Deep Creek to 79 percent, or 4,100 acre-feet on Eagle Creek. Bidwell Creek is expected to flow 9,200 acre-feet, or 75 percent of average. Mill Creek is forecast to flow 4,200 acre-feet, or 76 percent of average.

Cedarville precipitation was 1.95 inches during February compared to an average of 1.41 inches. The total for the October-February period is 6.50 inches compared to an average of 7.99 inches.

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST	MEASURED	
	THIS YEAR	LAST YEAR	AVERAGE
Bidwell Creek near Fort Bidwell	9.2	14.7	14.3*
Mill Creek above all diversions	4.2	5.6	5.5
Deep Creek above all diversions	2.6	2.4	3.8
Eagle Creek near mouth of canyon	4.1	3.8	5.2

Note: April-Sept. forecasts
Coordinated forecasts of SCS
and California Dept. of Water
Resources Snow Survey Units.

NOTE:

All averages based on 1948-62, 15 year period. Forecast period is April 1 through July 31 unless otherwise noted. a-Aerial marker; water content estimated. * 1948-62 adjusted average.** Last year's flow for these streams not available at this time.

SNOW

March 1, 1968

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
Bald Mountain	6720	2/26	2	1.0	4.8	3.5
Barber Creek (Calif.)	6500	2/27	23	8.2	10.4	10.5 *
Cedar Pass (Calif.)	7100	3/1	32	10.6	11.8	13.8
Dismal Swamp (Oregon)	7000	2/26	30	10.5	15.2a	15.8 *
49 Mountain	6000	2/27	4	1.1	5.0	4.3 *
Hays Canyon	6400	2/27	6	1.4	4.1	3.8 *
Little Bally Mountain	6000	2/26	0	0.0	2.3a	---
Reservation Creek (Calif.)	5900	2/28	13	4.4	8.0	10.4 *

Agencies Cooperating in Collecting Data Contained in this Bulletin

FEDERAL

- Agricultural Research Service
- Army
- Bureau of Reclamation
- Fish and Wildlife Service
- Forest Service
- Geological Survey
- Navy
- Soil Conservation Service
- U.S. District Court - Federal Water Master
- Weather Bureau

STATE

- California Cooperative Snow Surveys
- California Department of Parks and Recreation
- California Department of Water Resources
- Colorado River Commission of Nevada
- Idaho Cooperative Snow Surveys
- Nevada Association of Soil Conservation Districts
- Nevada Cooperative Snow Surveys
- Nevada Department of Conservation & Natural Resources
 - Division of Water Resources
 - Nevada State Forester-Firewarden
- Oregon Cooperative Snow Surveys
- University of Nevada
- Utah Cooperative Snow Surveys
- White Mountain Research Station, Univ. of California

PRIVATE

- Amalgamated Sugar Company
- Kennecott Copper Corporation
- Nevada Irrigation District
- Owyhee Project North Board of Control
- Owyhee Project South Board of Control
- Pacific Gas & Electric Company
- Pershing County Water Conservation District
- Sierra Pacific Power Company
- Squaw Valley Development Company
- Truckee-Carson Irrigation District
- Walker River Irrigation District
- Washoe County Water Conservation District

Other organizations and individuals furnish valuable information for the snow survey reports. Their Cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
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RENO, NEVADA 89505
OFFICIAL BUSINESS

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COOPERATIVE SNOW SURVEYS

Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation , navigation ,
mining and industry

*"The Conservation of Water begins
with the Snow Survey"*